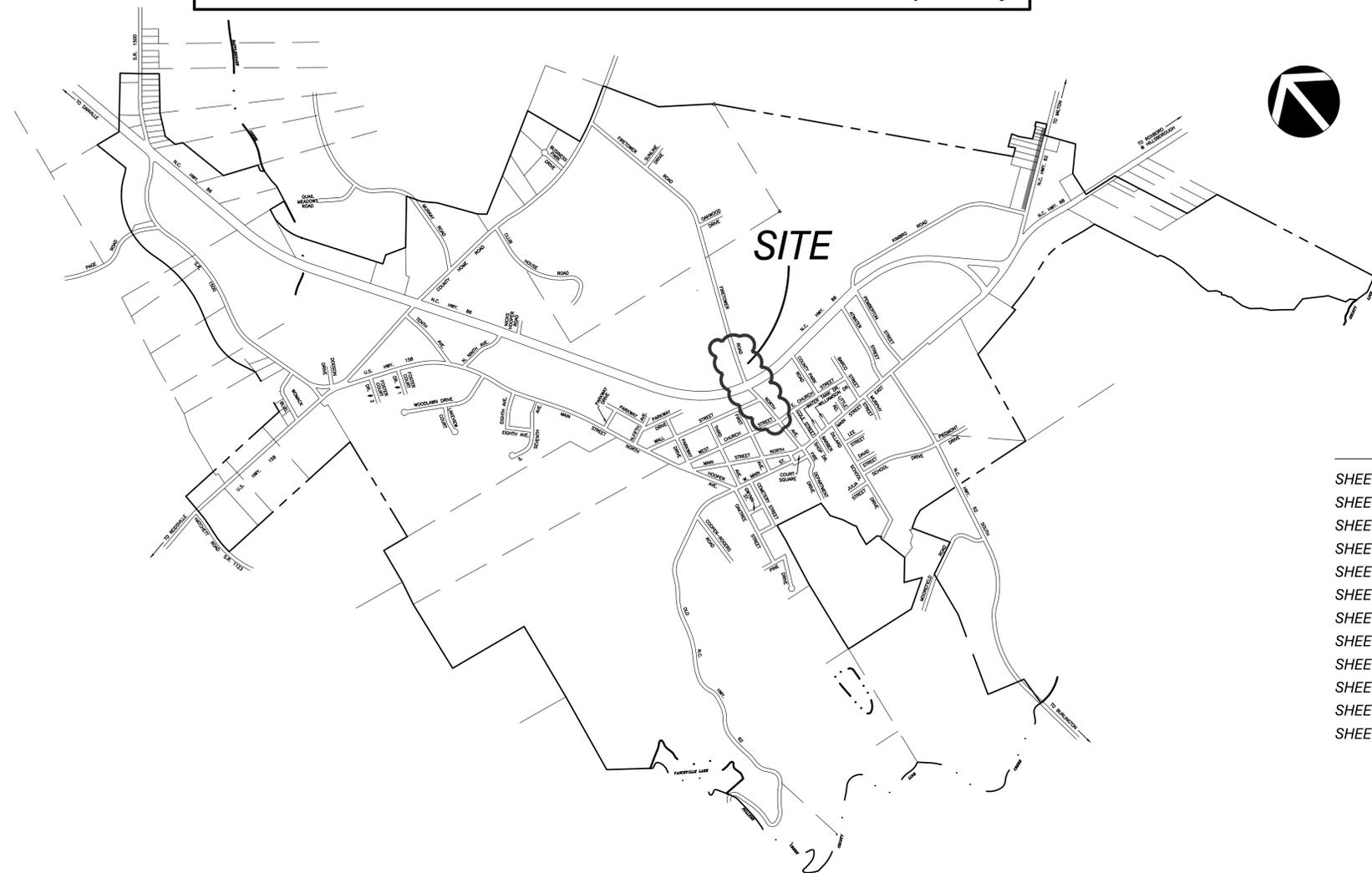


# TOWN OF YANCEYVILLE NORTH AVENUE SIDEWALK & FIRETOWER ROAD MULTI-USE PATH

CASWELL COUNTY, NORTH CAROLINA

NCDOT PROJECT NO. EB-3314 E  
WBS: 33935.2.5  
FEDERAL AID NO.: STPEB-000S(765)



## TOWN OF YANCEYVILLE

158 EAST CHURCH STREET (TOWN HALL)  
YANCEYVILLE, NORTH CAROLINA 27379  
TELEPHONE: (336) 694-5431  
FAX: (336) 694-1469

### MAYOR

ALVIN FOSTER

### TOWN COUNCIL

ODESSA D. GWYNN, MAYOR PRO-TEM  
BRIAN MASSEY  
KEITH TATUM  
MARGIE BADGETT-LAMPKIN

### TOWN OF YANCEYVILLE ADMINISTRATION

BRIAN COLLIE - TOWN MANAGER

## INDEX OF SHEETS

- SHEET 1 - COVER SHEET
- SHEET 2 - TYPICAL SECTIONS
- SHEET 3 - NORTH AVENUE SIDEWALK
- SHEET 4 - NORTH AVENUE SIDEWALK
- SHEET 5 - FIRETOWER ROAD MULTI-USE PATH
- SHEET 6 - CURB RAMP & PAVEMENT MARKING DETAILS
- SHEET 7.1 - CROSS SECTIONS
- SHEET 7.2 - CROSS SECTIONS
- SHEET 8 - RETAINING WALL DETAILS
- SHEET 9.1 - CONSTRUCTION DETAILS
- SHEET 9.2 - CONSTRUCTION DETAILS
- SHEET 10 - TRAFFIC CONTROL & SIGNAGE PLAN

ALLEY, WILLIAMS, CARMEN & KING, INC.  
BURLINGTON, NORTH CAROLINA

LEVEL III CERTIFIED BY:  
TROY KING, P.E.  
CERTIFICATION NUMBER : 3739  
ISSUED: DECEMBER 2, 2014

THESE EROSION AND SEDIMENT CONTROL PLANS  
COMPLY WITH THE REGULATIONS SET FORTH BY  
THE NCG-010000 GENERAL CONSTRUCTION  
PERMIT EFFECTIVE AUGUST 3, 2011 ISSUED BY THE  
NORTH CAROLINA DEPARTMENT OF  
ENVIRONMENT AND NATURAL RESOURCES  
DIVISION OF WATER QUALITY.

ALLEY, WILLIAMS, CARMEN, & KING, INC.  
ENGINEERS & ARCHITECTS  
740 CHAPEL HILL ROAD  
BURLINGTON, NORTH CAROLINA 27215  
TELEPHONE: 336-226-5534

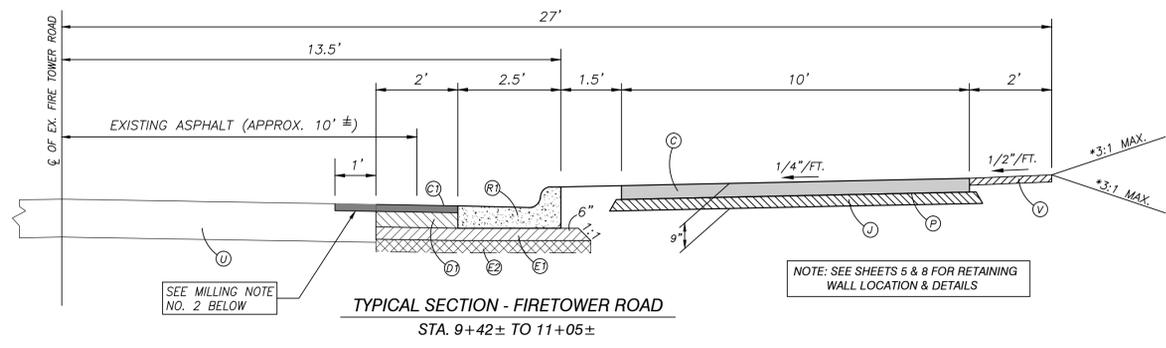
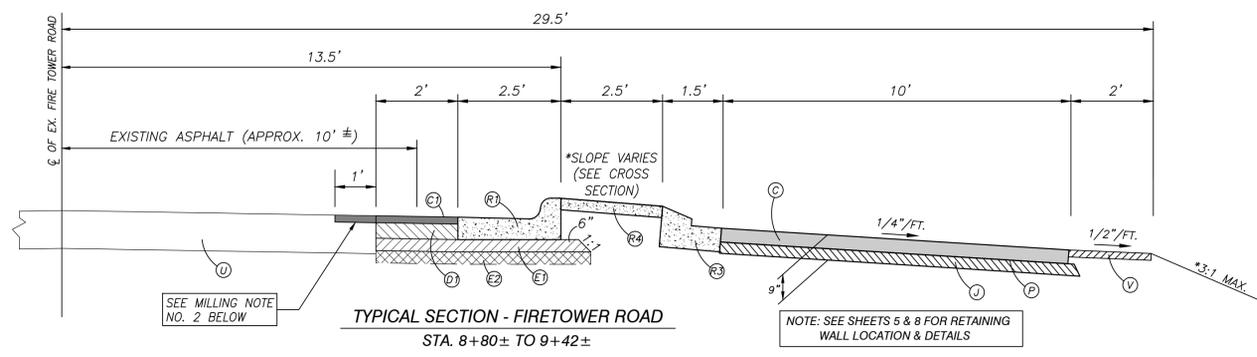
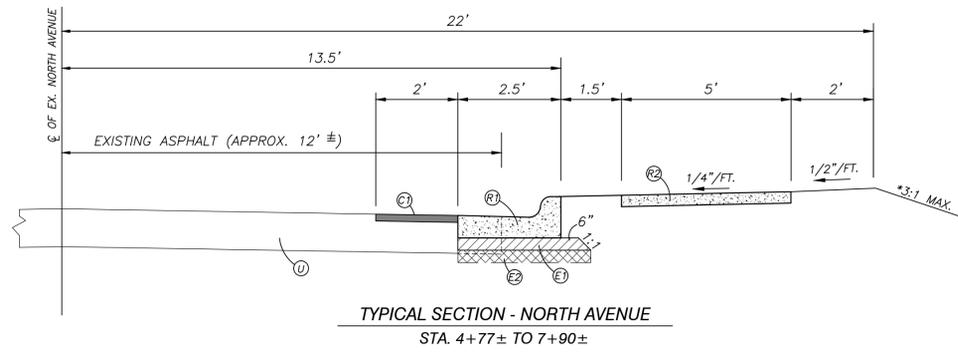
FIRM'S ENGINEERING LICENSE NO. F-0203



REVISED 5/24/16 PER NCDOT COMMENTS

DATE: MAY 2, 2016

JOB NO. 13069-1



**TRENCHING FOR BASE COURSE/MILLING NOTES:**

WHERE THE EDGE OF PROPOSED CONCRETE GUTTER IS WITHIN EDGE OF EXISTING PAVEMENT, THEN:

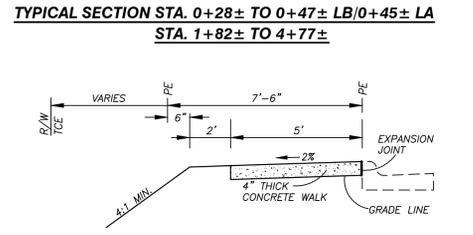
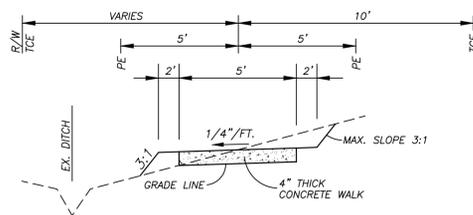
- TRENCH AREA RIGHT OF PROPOSED EDGE OF CONCRETE GUTTER TO BASE COURSE SUBGRADE (E1). IF DIRECTED BY ENGINEER, UNDERCUT & PROVIDE BASE COURSE (E2). INSTALL BASE COURSE.
- MILL A 1 FT. WIDE STRIP, APPROXIMATELY 1.5" IN DEPTH ONTO EXISTING PAVEMENT.
- PROVIDE A NEAT, UNIFORM EDGE OF CONCRETE GUTTER.
- SEE PROJECT SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

WHERE THE EDGE OF PROPOSED CONCRETE GUTTER IS BEYOND EDGE OF EXISTING PAVEMENT, THEN:

- TRENCH AREA FROM 2' LEFT OF EDGE OF CONCRETE GUTTER TO 1' RIGHT OF BACK OF CURB TO BASE COURSE SUBGRADE (E1). IF DIRECTED BY ENGINEER, UNDERCUT & PROVIDE BASE COURSE (E2). INSTALL BASE COURSE (E1) & (D1).
- PROVIDE A NEAT, UNIFORM EDGE OF CONCRETE GUTTER.
- SEE PROJECT SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

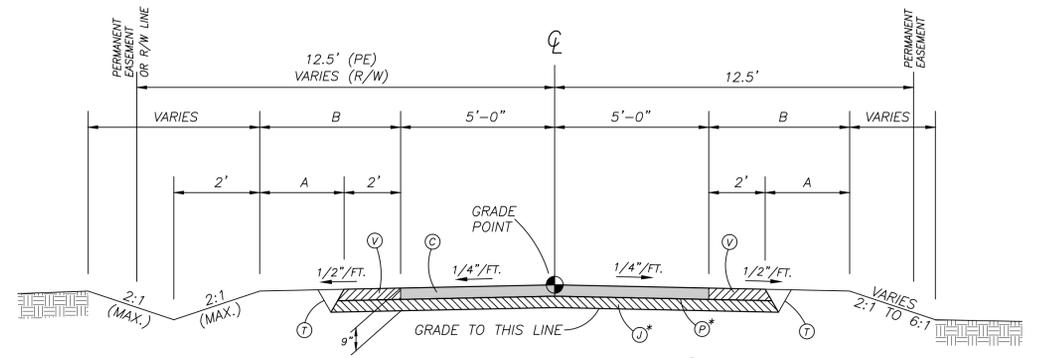
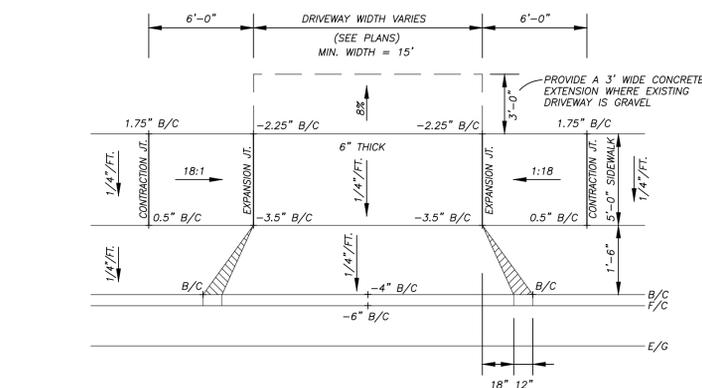
PAVEMENT SCHEDULE	
C	PROPOSED APPROXIMATE 1.5" BITUMINOUS CONCRETE SURFACE COURSE, TYPE S9.5A, AT AN AVERAGE RATE OF 110 LBS. PER SQUARE YARD IN EACH OF TWO LAYERS.
C1	PROPOSED APPROXIMATE 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQUARE YARD IN EACH OF TWO LAYERS.
D1	PROPOSED APPROXIMATE 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I 19.0 B, AT AN AVERAGE RATE OF 458 LBS. PER SQUARE YARD. TYPE B25.0B MAY BE USED IF INSTALLATION OCCURS SAME DAY AS E1.
E1	PROPOSED APPROXIMATE 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 458 LBS. PER SQUARE YARD.
E2	PROPOSED SHALLOW UNDERCUT TO STABLE SUBGRADE AS DIRECTED BY ENGINEER (DEPTH VARIES). PROPOSED DEPTH VARIES. ASPHALT CONCRETE BASE COURSE, TYPE B 25.0B AT AN AVERAGE RATE OF 114 LBS/IN THICK PER SQUARE YARD. MAXIMUM LIFT THICKNESS OF B 25.0B IS 5.5 INCHES.
J	PROPOSED 6" AGGREGATE BASE COURSE.
P	PRIME COAT AT THE RATE OF 0.35 GAL. PER SQ. YD.
R1	2'-6" CONCRETE CURB & GUTTER, NCDOT STD. 846.01
R2	5'-0" CONCRETE SIDEWALK, 4" THICK
R3	1'-6" CONCRETE CURB & GUTTER, NCDOT STD. 846.01
R4	4" CONCRETE ISLAND COVER, NCDOT STD. 852.10
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V	PROPOSED APPROXIMATE 2" OF SELECT GRANULAR MATERIAL.

NOTE: ALL PAVEMENT EDGE SLOPES ARE 1:1



BETWEEN STA. 0+00 TO STA. 4+80±, GRADE TYPICAL SECTION TO PROPOSED GRADE LINE. ENGINEER WILL DIRECT SHALLOW UNDERCUTTING ANY AREA DEEMED UNSUITABLE & CONTRACTOR SHALL INSTALL GEOTEXTILE FOR SOIL STABILIZATION & CLASS IV SUBGRADE STABILIZATION AS REQUIRED TO PROVIDE STABLE SUBGRADE.

(SEE DETAIL SHEET 6 FOR CURB RAMP STA. 0+00 FOR DETAILS)



\*NOTE: 6" OF ABC AND PRIME COAT MAY BE SUBSTITUTED WITH 3" OF B25.0B

RECOMMENDED TYPICAL SECTION OF 10 FT. ASPHALT PATHWAY (FUTURE) WITH 2 FT. CRUSHED STONE SHOULDER

STA. 11+75± TO 31+11±  
STA. 32+47± TO 33+25

PIPE REMOVAL SUMMARY				
STATION	LOCATION	LENGTH	SIZE	REMARKS
4+91±	10' RT	4	15" RCP	REMOVE EXIST 15" RCP TO CONSTRUCT PROP DI
5+30±	5' LT	4	36" RCP	REMOVE EXIST 36" RCP TO CONSTRUCT PROP CB
5+67±	5' LT	4	18" RCP	REMOVE EXIST 18" RCP TO CONSTRUCT PROP SB
9+00±	4' LT	4	18" RCP	REMOVE EXIST 18" RCP TO CONSTRUCT PROP J5
11+14 LA	LT	6	18" RCP	REMOVE EXISTING 18" FES
11+72 LA	LT	6	18" RCP	REMOVE EXISTING 18" FES
		28 LF	ESTIMATE	

Doghouse Structures	
Structure #	Structure Top
3	575.13 RIM
4	575.69 T/C

STORM SEWER CHART																					
Structure # Up	Structure # Down	Drainage Area (ac)	Total Area (ac)	Runoff Coeff (C)	Tc (min)	I25 (in/hr)	Incr Q (cfs)	FlowRate (cfs)	Capacity (cfs)	Line Size (in)(mat.)	Line Length (ft)	Line Slope (%)	Vel Ave (ft/s)	InvertUp (ft)	InvertDn (ft)	Rim Elev Up (ft)	Rim Elev Dn (ft)	HGLUp (ft)	HGLDn (ft)		
1	2	0.6	0.6	0.65	10.3	5.16	2.01	2.01	17.84	15" HDPE	80.43	6.55	3.74	587.59	592.85	N/A	N/A	588.15	593.59		
6	5	0.16	0.16	0.95	10.0	5.89	0.89	0.89	7.18	15" RCP	8.55	1.05	3.44	572.71	572.62	575.71	N/A	573.08	572.92		
8	7	0.17	0.17	0.85	10.0	5.89	0.85	0.85	19.25	15" RCP	32.49	7.57	5.36	584.99	582.53	587.99	586.03	585.35	582.71		
9	10	PIPE EXTENSION - NO CALCULATIONS PROVIDED										18" RCP	16.00	3.45	N/A	578.96	578.40	N/A	N/A	N/A	N/A

**MULTI-USE PATH NOTES:**

- ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH NCDOT 2012 STANDARD SPECIFICATIONS AND DETAIL DRAWINGS.
- WHEN NECESSARY, RELOCATE ROADWAY SIGNS.
- ADJUST UTILITIES, VALVES, METER BOXES AND MANHOLES AS REQUIRED TO MATCH ADJACENT GRADE.

**CONCRETE SIDEWALK NOTES:**

- ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH NCDOT 2012 STANDARD SPECIFICATIONS AND DETAIL DRAWINGS.
- CONCRETE MIX DESIGN SHALL BE CLASS A OR B, AIR ENTRAINED, NON-VIBRATORY MIX AND SHALL BE A STANDARD NCDOT APPROVED MIX DESIGN.
- WHEN NECESSARY, RELOCATE ROADWAY SIGNS.
- ADJUST UTILITIES, VALVES, METER BOXES AND MANHOLES AS REQUIRED TO MATCH SIDEWALK/SHOULDER GRADE.
- ALL SIDEWALKS SHALL BE IN COMPLIANCE WITH ADA REQUIREMENTS.
- USE HIGH EARLY STRENGTH CONCRETE FOR ALL DRIVEWAYS.



REVISED 5/24/16 PER NCDOT COMMENTS

NCDOT PROJECT NO. EB-3314 E

PROPOSED SIDEWALK IMPROVEMENTS FOR

## TOWN OF YANCEYVILLE

YANCEYVILLE, NORTH CAROLINA  
YANCEYVILLE TOWNSHIP, CASWELL COUNTY, NC

alley, williams, carmen & king, inc.  
ENGINEERS, ARCHITECTS & SURVEYORS  
740 chapel hill road p.o. box 1179  
burlington, n.c. 27215 336/226-5534  
Firm's Engineering License No. P-0203

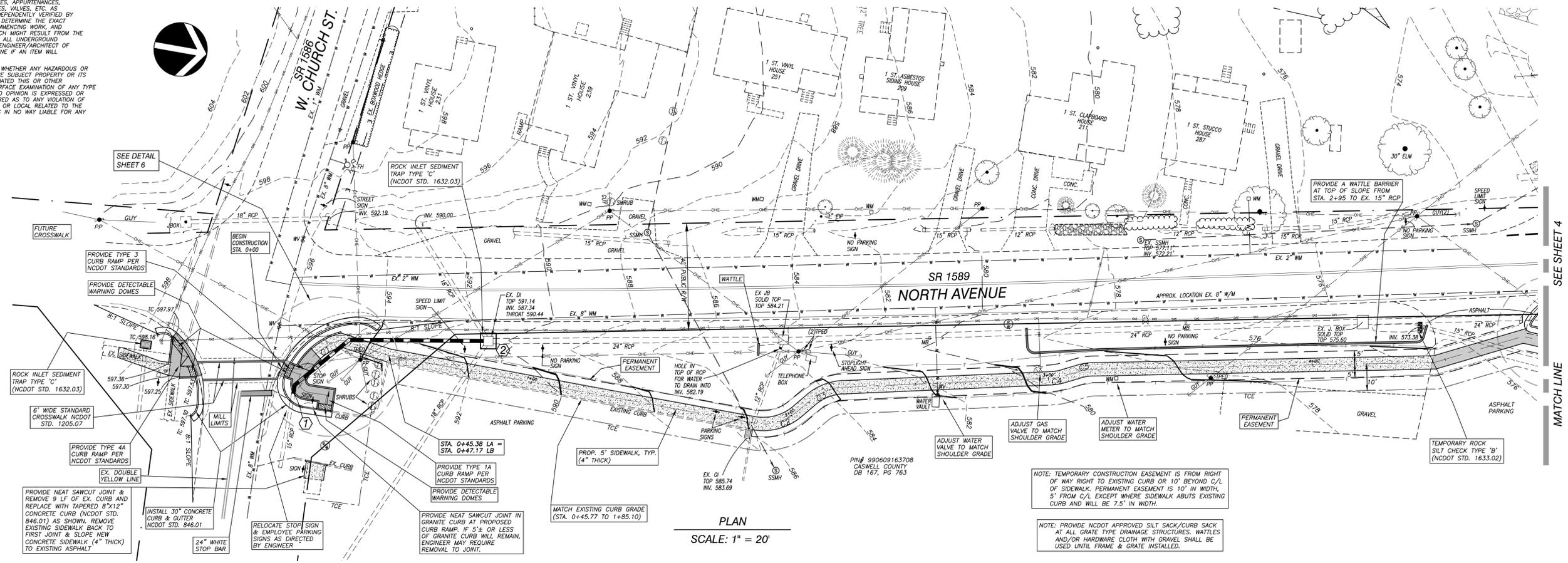
DATE: 5/2/16  
DRAWN BY: WDF  
CHECKED BY: MDR

TYPICAL SECTIONS

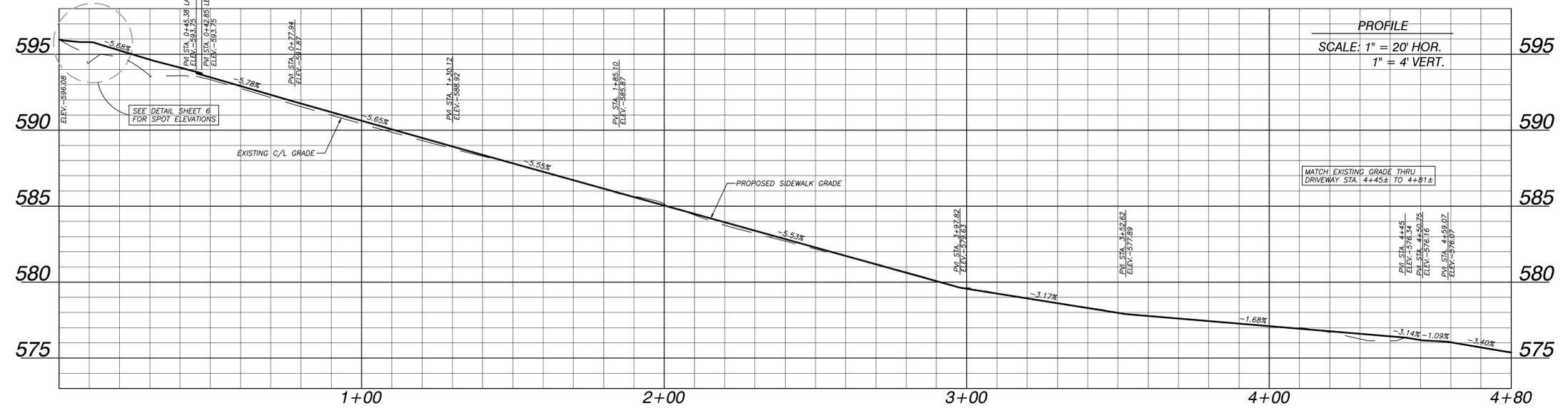
JOB NO. 13069-1  
DWG NAME: 13069(10153)BASE.DWG  
SHEET NO. 2

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THE ENGINEER/ARCHITECT HAS MADE NO EXAMINATION TO DETERMINE WHETHER ANY HAZARDOUS OR TOXIC MATERIALS ARE PRESENT OR CONTAINED IN, UNDER, OR ON THE SUBJECT PROPERTY OR ITS WATERS, OR IF ANY HAZARDOUS OR TOXIC MATERIALS HAVE CONTAMINATED THIS OR OTHER PROPERTIES OR ITS WATERS IN ANY WAY WHATSOEVER. NO SUB-SURFACE EXAMINATION OF ANY TYPE HAS BEEN MADE BY THE ENGINEER/ARCHITECT, AND ACCORDINGLY, NO OPINION IS EXPRESSED OR INFERRED ON ALL SUCH MATTERS. FURTHER, NO OPINION IS RENDERED AS TO ANY VIOLATION OF ANY ENVIRONMENTAL LAWS OR REGULATIONS, EITHER FEDERAL, STATE, OR LOCAL RELATED TO THE INFORMATION SHOWN ON THIS PLAN AND THE ENGINEER/ARCHITECT IS IN NO WAY LIABLE FOR ANY VIOLATION OF SUCH ENVIRONMENTAL LAWS SHOULD SUCH EXIST.

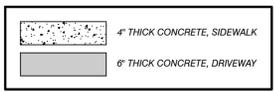


PLAN  
SCALE: 1" = 20'



PROFILE  
SCALE: 1" = 20' HOR.  
1" = 4' VERT.

- CONCRETE SIDEWALK NOTES:**
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  5. ALL SIDEWALKS SHALL BE IN COMPLIANCE WITH ADA REQUIREMENTS.
  6. USE HIGH EARLY STRENGTH CONCRETE FOR ALL DRIVEWAYS.



- LEGEND**
- EIP
  - ✕ CALCULATED POINT
  - ⊙ LAMP POST
  - ⊙ SANITARY SEWER MANHOLE
  - PP POWER POLE
  - LP LIGHT POLE
  - WM WATER METER
  - WV WATER VALVE
  - ⊙ FIRE HYDRANT
  - ⊙ CLEAN OUT
  - ⊙ CURB INLET
  - ⊙ GRATE INLET
  - ⊙ YARD INLET
  - MW MONITORING WELL
  - ⊙ LANDSCAPE LIGHT
  - ⊙ BOLLARDS
  - GTS GAS TESTING STATION
  - TPED TELEPHONE PEDESTAL

STRUCTURE #	NCDOT STD. # /REMARKS
①	840.72
②	EX. DROP INLET

(SEE SHEET 2 FOR ADDITIONAL STORM DRAINAGE INFORMATION)

SEE CROSS SECTION SHEETS 7.1-7.2 FOR ADDITIONAL INFORMATION

SEE SHEET 9 FOR GENERAL EROSION CONTROL NOTES

TOTAL DISTURBED AREA - 0.56 ACRES ±

HORIZONTAL ALIGNMENT CURVE DATA								
CURVE #	DEG OF CURVE	DELTA	LENGTH	TANGENT DIST	RADIUS	PI	PC	PT
C1	233°51'37"	48°21'33"	20.68	11.00	24.50	0+18.58	0+07.58	0+28.36
							0+47.17 LB	
							0+45.38 LA	
C2	286°28'44"	50°38'38"	17.68	9.46	20.00	1+94.57	1+85.10	2+02.78
							2+16.25	2+09.38
							2+16.25	2+22.61
C3	286°28'44"	37°53'11"	13.22	6.86	20.00	3+03.28	3+00.84	3+05.71
							3+14.46	3+11.78
							3+14.46	3+17.10
C4	286°28'44"	15°14'28"	5.32	2.68	20.00	4+45.91		

NCDOT PROJECT NO. EB-3314 E  
PROPOSED SIDEWALK IMPROVEMENTS FOR  
**TOWN OF YANCEYVILLE**  
YANCEYVILLE, NORTH CAROLINA  
YANCEYVILLE TOWNSHIP, CASWELL COUNTY, NC

alley, williams, carmen & king, inc.  
ENGINEERS, ARCHITECTS & SURVEYORS  
740 chapel hill road p.o. box 1179  
burlington, n.c. 27215 336/226-5534  
Firm's Engineering License No. P-0203

DATE: 5/2/16  
DRAWN BY: WDF  
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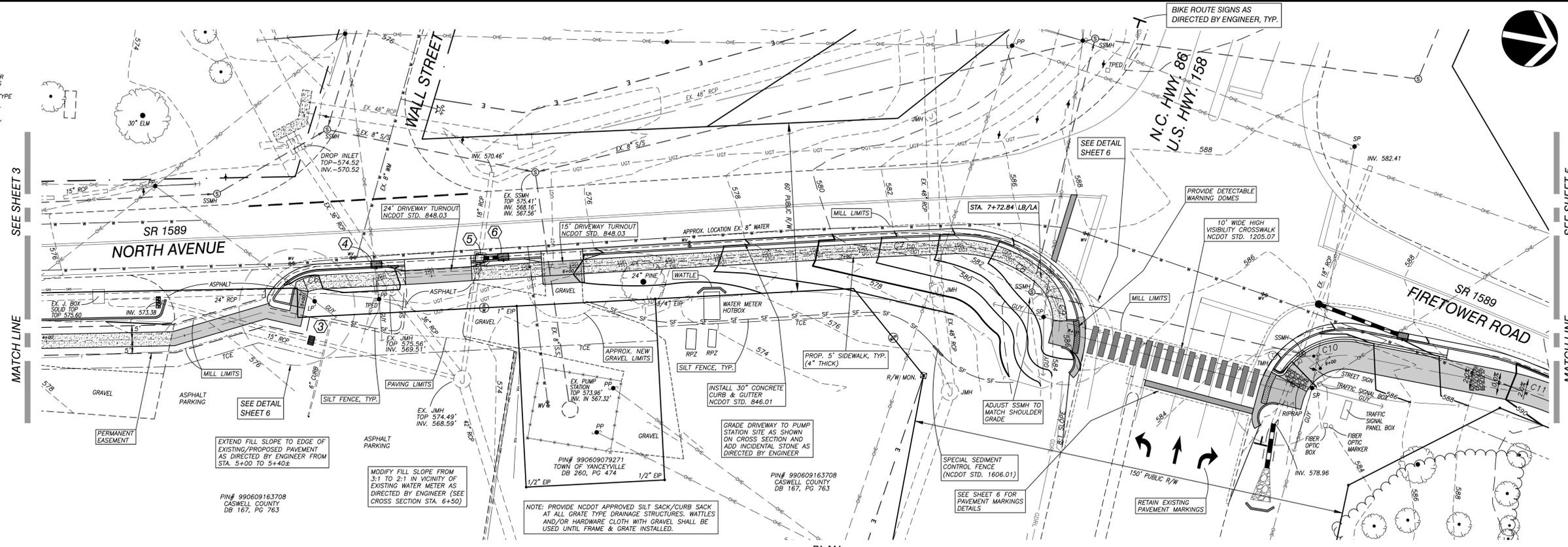
NORTH AVENUE SIDEWALK & FIRE TOWER ROAD MULTI-USE PATH  
(FROM CHURCH STREET TO ±300' NORTH OF NC HWY 86N)

JOB NO. 13069-1  
DWC NAME: 13069(10153)BASE.DWG  
SHEET NO. 3

6/21/2016  
REVISED 5/24/16 PER NCDOT COMMENTS

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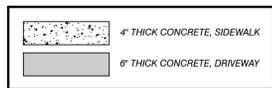
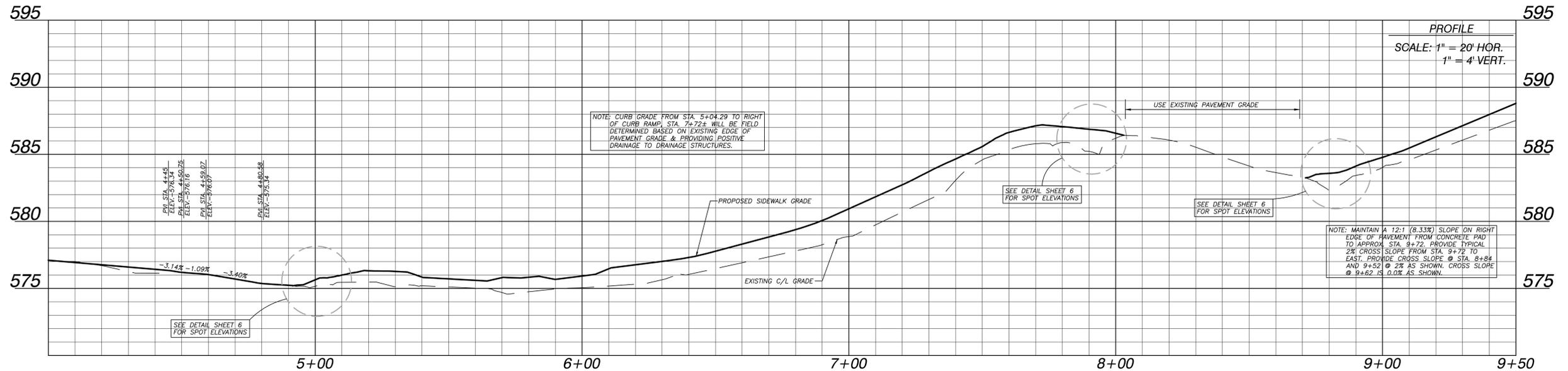
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STRUCTURE #	NCDOT STD. # /REMARKS	TYPE
3	840.15	
4	840.01	F
5	840.41	
6	840.01	E

(SEE SHEET 2 FOR ADDITIONAL STORM DRAINAGE INFORMATION)

PLAN  
SCALE: 1" = 20'



**LEGEND**

- EIP
- ⊗ CALCULATED POINT
- ⊙ LAMP POST
- ⊕ SANITARY SEWER MANHOLE
- PP POWER POLE
- LP LIGHT POLE
- WM WATER METER
- WV WATER VALVE
- ⊖ FIRE HYDRANT
- ⊗ CLEAN OUT
- ⊕ CURB INLET
- ⊖ GRATE INLET
- ⊖ YARD INLET
- MW MONITORING WELL
- ⊖ LANDSCAPE LIGHT
- ⊖ BOLLARDS
- ⊖ GAS TESTING STATION
- ⊖ TELEPHONE PEDESTAL

- CONCRETE SIDEWALK NOTES:**
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  - ADJUST UTILITIES, VALVES, METER BOXES AND MANHOLES AS REQUIRED TO MATCH SIDEWALK/SHOULDER GRADE.
  - ALL SIDEWALKS SHALL BE IN COMPLIANCE WITH ADA REQUIREMENTS.
  - USE HIGH EARLY STRENGTH CONCRETE FOR ALL DRIVEWAYS.

SEE CROSS SECTION SHEETS 7.1-7.2 FOR ADDITIONAL INFORMATION

SEE SHEET 9 FOR GENERAL EROSION CONTROL NOTES

TOTAL DISTURBED AREA - 0.56 ACRES ±

HORIZONTAL ALIGNMENT CURVE DATA								
CURVE #	DEG OF CURVE	DELTA	LENGTH	TANGENT DIST	RADIUS	PI	PC	PT
		151°12'58"				4+80.58		
		90°00'00"				4+91.45		
C6	358°05'55"	23°46'07"	6.64	3.37	16.00	5+06.29	5+02.93	5+09.56
		179°30'45"				5+47.22		
		179°50'22"				5+90.80		
		179°50'49"				6+38.27		
C7	2°25'44"	1°19'14"	54.36	27.18	2358.99	7+11.20	6+84.02	7+38.38
C8	125°55'29"	43°23'39"	34.46	18.10	45.50	7+56.49	7+38.38	7+72.84
C9	286°28'44"	59°56'40"	20.92	11.53	20.00	7+84.37	7+72.84	7+93.76
		105°09'30"				7+93.76		

NCDOT PROJECT NO. EB-3314 E

PROPOSED SIDEWALK IMPROVEMENTS FOR

## TOWN OF YANCEYVILLE

YANCEYVILLE, NORTH CAROLINA  
YANCEYVILLE TOWNSHIP, CASWELL COUNTY, NC

alley, williams, carmen & king, inc.  
ENGINEERS, ARCHITECTS & SURVEYORS  
740 chapel hill road p.o. box 1179  
burlington, n.c. 27215 336/226-5534  
Firm's Engineering License No. P-0203

DATE: 5/2/16  
DRAWN BY: WDF  
CHECKED BY: MDR

NORTH AVENUE SIDEWALK & FIRETOWER ROAD MULTI-USE PATH (FROM CHURCH STREET TO ±300' NORTH OF NC HWY 86N)

JOB NO. 13069-1  
DWG NAME: 13069(10153)BASE.DWG  
SHEET NO. 4

REVISED 5/24/16 PER NCDOT COMMENTS

THIS PLAN DOES NOT PURPORT TO SHOW ALL EXISTING UTILITIES, LINES, APPURTENANCES, ETC., AND THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES, PIPES, VALVES, ETC. AS SHOWN ARE IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER/ARCHITECT. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES, LINES, PIPES, ETC. BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT RESULT FROM THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, PIPES AND VALVES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER/ARCHITECT OF ANY CONFLICTS WITH EXISTING AND PROPOSED FACILITIES TO DETERMINE IF AN ITEM WILL NEED TO BE RELOCATED.

THE ENGINEER/ARCHITECT HAS MADE NO EXAMINATION TO DETERMINE WHETHER ANY HAZARDOUS OR TOXIC MATERIALS ARE PRESENT OR CONTAINED IN, UNDER, OR ON THE SUBJECT PROPERTY OR ITS WATERS, OR IF ANY HAZARDOUS OR TOXIC MATERIALS HAVE CONTAMINATED THIS OR OTHER PROPERTIES OR ITS WATERS IN ANY WAY WHATSOEVER. NO SUB-SURFACE EXAMINATION OF ANY TYPE HAS BEEN MADE BY THE ENGINEER/ARCHITECT, AND ACCORDINGLY, NO OPINION IS EXPRESSED OR INFERRED ON ALL SUCH MATTERS. FURTHER, NO OPINION IS RENDERED AS TO ANY VIOLATION OF ANY ENVIRONMENTAL LAWS OR REGULATIONS, EITHER FEDERAL, STATE, OR LOCAL, RELATED TO THE INFORMATION SHOWN ON THIS PLAN AND THE ENGINEER/ARCHITECT IS IN NO WAY LIABLE FOR ANY VIOLATION OF SUCH ENVIRONMENTAL LAWS SHOULD SUCH EXIST.

NOTE: PROVIDE NCDOT APPROVED SILT SACK/CURB SACK AT ALL GRATE TYPE DRAINAGE STRUCTURES, WATLES AND/OR HARDWARE CLOTH WITH GRAVEL SHALL BE USED UNTIL FRAME & GRATE INSTALLED.

NOTE: REMOVE EXISTING WHITE LANE & DOUBLE YELLOW LINES BETWEEN HIGH VISIBILITY CROSSWALK & PROPOSED STOP BARS

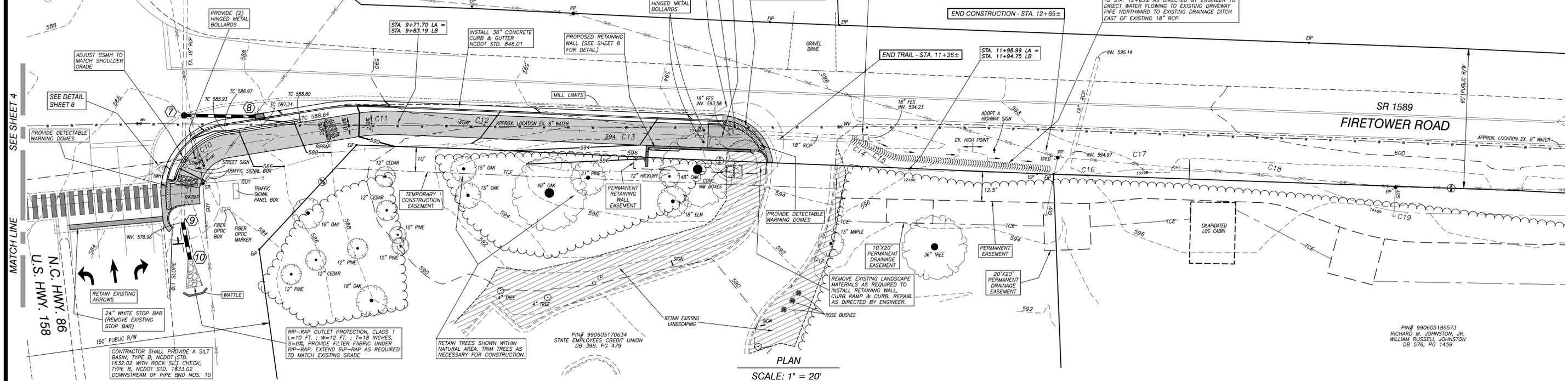
MILL APPROXIMATELY 1.5" DEPTH OF EXISTING PAVEMENT AS DIRECTED BY ENGINEER, IN ACCORDANCE WITH TYPICAL SECTIONS & AS NOTED ON DRAWINGS. PROVIDE ASPHALT SURFACE COURSE (C) IN MILLED AREAS.

REMOVE BOTH FLARED END SECTIONS, PLUG AND FILL WITH FLOWABLE FILL, AS DIRECTED BY ENGINEER

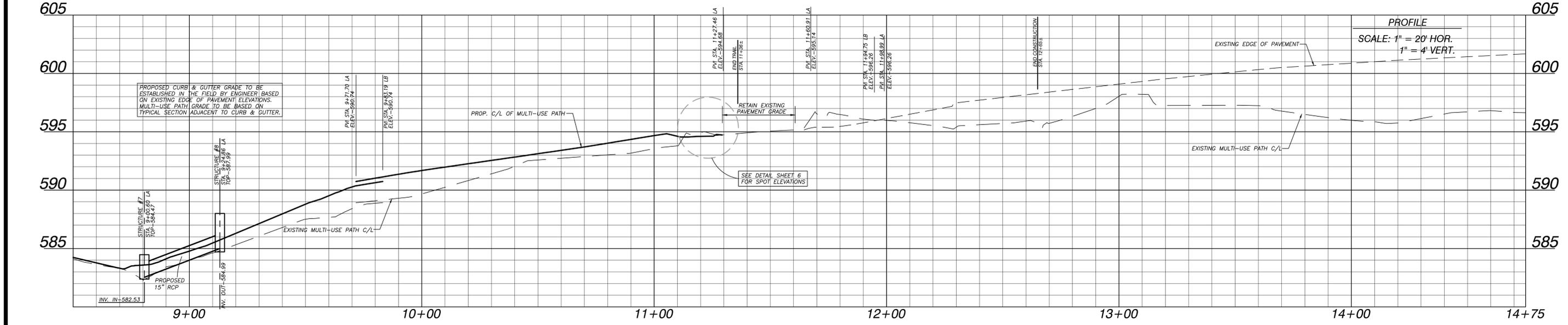
PROVIDE TYPE 1 MODIFIED CURB RAMP PER NCDOT STANDARDS

CONSTRUCT COMBINATION BERM/DRAINAGE SWALE FROM END OF EXISTING PAVEMENT STA. 11+65± TO STA. 12+85± AS DIRECTED BY ENGINEER TO DIRECT WATER FLOWING TO EXISTING DRIVEWAY PIPE NORTHWARD TO EXISTING DRAINAGE DITCH EAST OF EXISTING 18" RCP.

SEE SHEET 9 FOR BOLLARD & SIGN LOCATION AND DETAILS



SCALE: 1" = 20'



PROFILE SCALE: 1" = 20' HOR. 1" = 4' VERT.

**MULTI-USE PATH NOTES:**

- ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH NCDOT 2012 STANDARD SPECIFICATIONS AND DETAIL DRAWINGS.
- WHEN NECESSARY, RELOCATE ROADWAY SIGNS.
- ADJUST UTILITIES, VALVES, METER BOXES AND MANHOLES AS REQUIRED TO MATCH ADJACENT GRADE.

HORIZONTAL ALIGNMENT CURVE DATA								
CURVE #	DEG OF CURVE	DELTA	LENGTH	TANGENT DIST	RADIUS	PI	PC	PT
		127°19'08"				8+80.47		
C10	279°29'30"	80°31'06"	28.81	17.36	20.50	8+97.83	8+80.47	9+09.28
C11	60°18'41"	11°26'49"	18.98	9.52	95.00	9+73.73	9+64.21	9+83.19 LB 9+71.70 LA
C12	0°22'47"	0°16'33"	72.63	36.31	15087.51	10+08.01	9+83.19 LB 9+71.70 LA	10+44.32
C13	0°13'48"	0°09'15"	67.04	33.52	24899.19	10+77.84	10+44.32	11+11.36
		169°20'27"				11+64.42		
C14	229°10'59"	28°54'59"	12.62	6.45	25.00	11+70.87	11+64.42	11+77.04
C15	229°10'59"	40°35'47"	17.71	9.25	25.00	11+86.28	11+77.04	11+84.75 LB 11+98.99 LA
C16	104°10'27"	7°21'25"	7.06	3.54	55.00	12+76.23	12+72.69	12+79.76
C17	104°10'27"	8°02'38"	7.72	3.87	55.00	12+98.62	12+94.75	13+02.47
C18	104°10'27"	18°08'22"	17.41	8.78	55.00	13+59.36	13+50.58	13+67.99
C19	57°17'45"	19°12'39"	33.53	16.92	100.00	14+07.16	13+90.24	14+23.76

SEE CROSS SECTION SHEETS 7.1-7.2 FOR ADDITIONAL INFORMATION

SEE SHEET 9 FOR GENERAL EROSION CONTROL NOTES

TOTAL DISTURBED AREA - 0.56 ACRES ±

STRUCTURE #	NCDOT STD. # /REMARKS	TYPE
7	840.34	
8	840.01	G
9	840.72	
10	PIPE END	

(SEE SHEET 2 FOR ADDITIONAL STORM DRAINAGE INFORMATION)

- LEGEND**
- EIP
  - ⊗ CALCULATED POINT
  - ⊗ LAMP POST
  - ⊗ SANITARY SEWER MANHOLE
  - PP POWER POLE
  - LP LIGHT POLE
  - ⊗ WATER METER
  - ⊗ WATER VALVE
  - ⊗ FIRE HYDRANT
  - ⊗ CLEAN OUT
  - ⊗ CURB INLET
  - ⊗ GRATE INLET
  - ⊗ YARD INLET
  - MW MONITORING WELL
  - ⊗ LANDSCAPE LIGHT
  - ⊗ BOLLARDS
  - ⊗ GAS TESTING STATION
  - ⊗ TELEPHONE PEDESTAL

NCDOT PROJECT NO. EB-3314 E

PROPOSED SIDEWALK IMPROVEMENTS FOR

## TOWN OF YANCEYVILLE

YANCEYVILLE, NORTH CAROLINA  
YANCEYVILLE TOWNSHIP, CASWELL COUNTY, NC

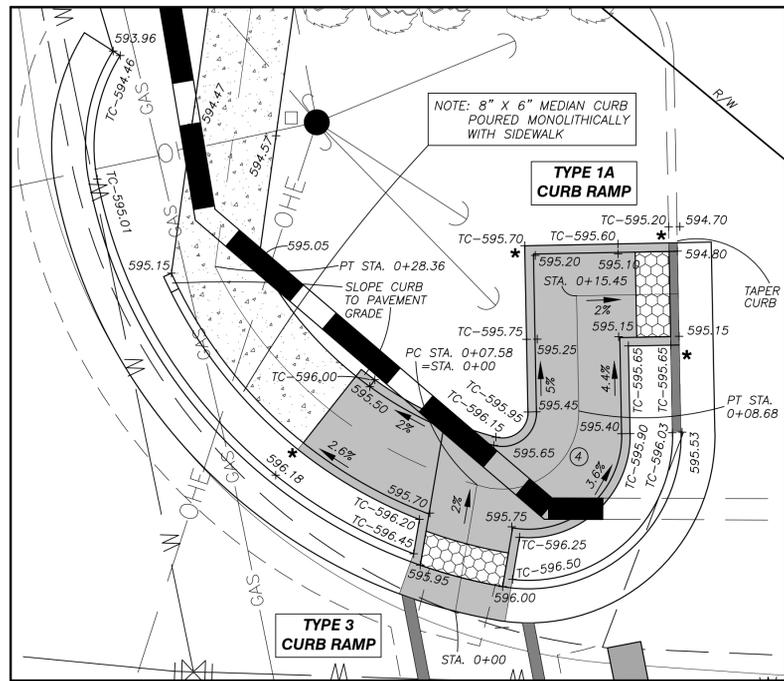
alley, williams, carmen & king, inc.  
ENGINEERS, ARCHITECTS & SURVEYORS  
740 chapel hill road p.o. box 1179  
burlington, n.c. 27215 336/226-5534  
Firm's Engineering License No. P-0203

DATE: 5/2/16  
DRAWN BY: WDF  
CHECKED BY: MDR

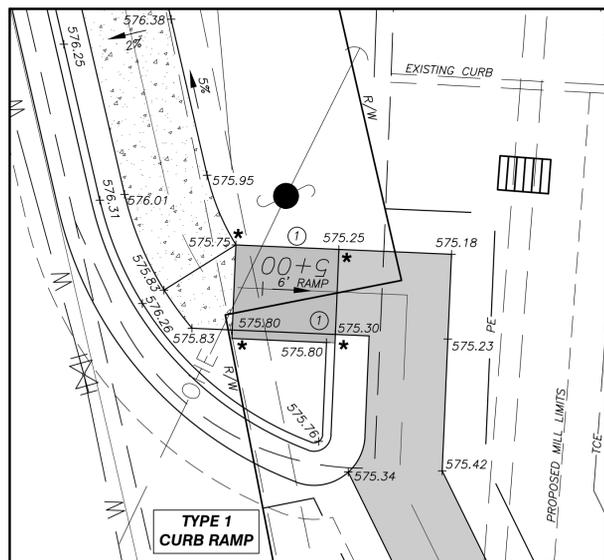
JOB NO. 13069-1  
DWG NAME: 13069(10153)BASE.DWG  
SHEET NO. 5

REVISED 5/24/16 PER NCDOT COMMENTS

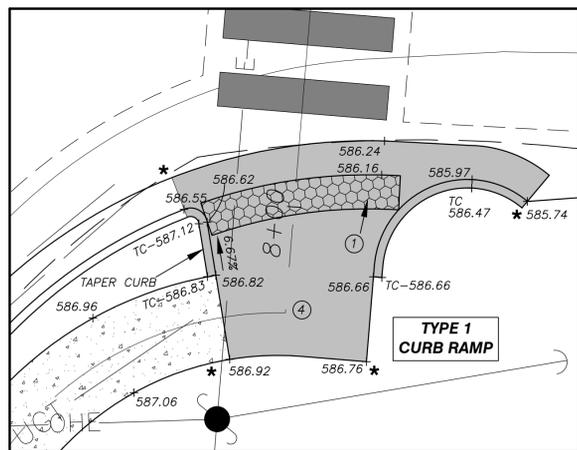




**CURB RAMP STA. 0+00**  
SCALE: 1" = 5'



**CURB RAMP STA. 4+96±**  
SCALE: 1" = 5'



**CURB RAMP STA. 8+04±**  
SCALE: 1" = 5'

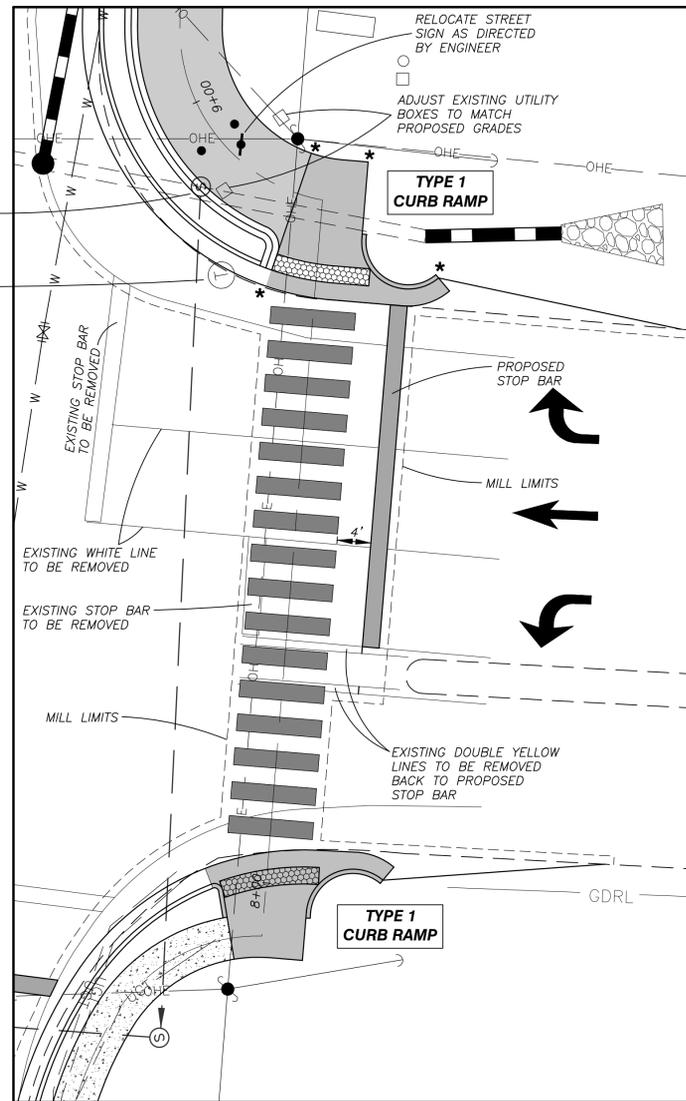
**3** TOP ELEV. -575.13±

NOTE: PROVIDE POSITIVE DRAINAGE (1% MIN.) TO DROP INLET #3 FROM ALL EDGES OF PROPOSED ASPHALT IN MILLED AREAS

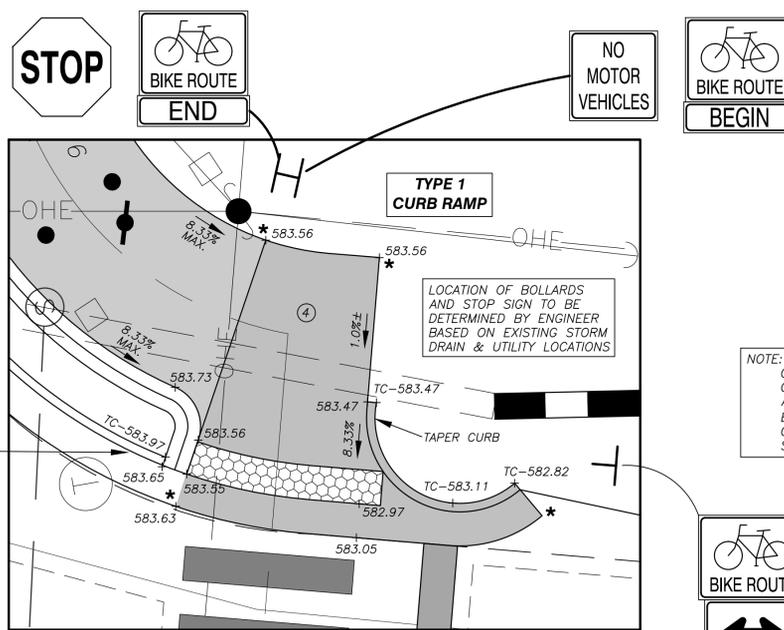
**DIRECTIONAL FLOW OF WATER**

\* CURB RAMP PAY LIMITS

- 1 8.33% (12:1) MAX. RAMP SLOPE
- 2 CROSS SLOPE: 2.0%
- 3 CURB RAMPs REQUIRE A 5'-0" X 5'-0" (MIN.) LANDING. CROSS SLOPE FOR PEDESTRIAN TURNAROUND SHALL BE 2.0% MAX. PROVIDE DRAINAGE AS SHOWN ON PLANS.
- 4 PROVIDE SLOPES AND DIMENSIONS AS SHOWN FOR CURB RAMP FOR CURB RAMP STA. X+XX IN LIEU OF TYPICAL SLOPES PER NCDOT STANDARD DRAWINGS.

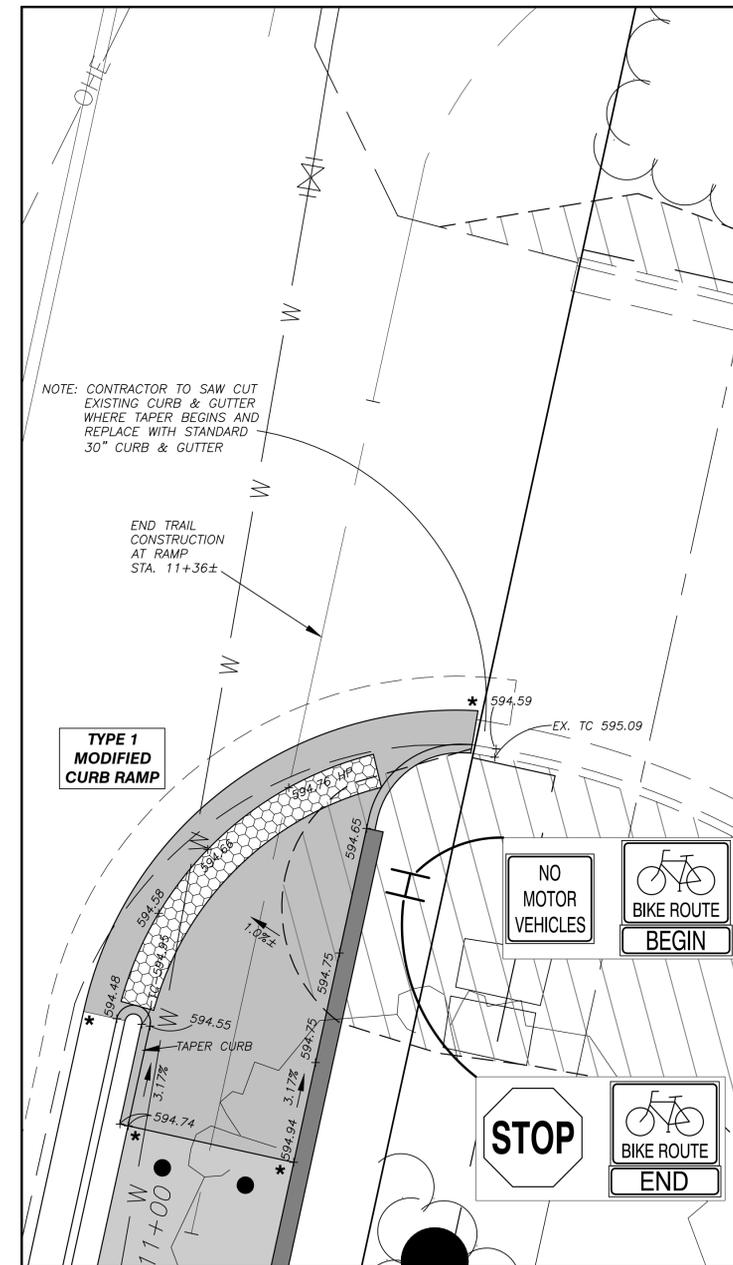


**PAVEMENT MARKING DETAIL**  
SCALE: 1" = 10'



**CURB RAMP STA. 8+69±**  
SCALE: 1" = 5'

NOTE: SEE SHEET 9 FOR ADDITIONAL CURB RAMP DETAILS & NOTES. CURB RAMPs WILL BE PAID FOR AT CONTRACT UNIT PRICE FOR EACH "CURB RAMP" REGARDLESS OF TYPE AND PAY LIMITS AS SHOWN ON DRAWINGS.



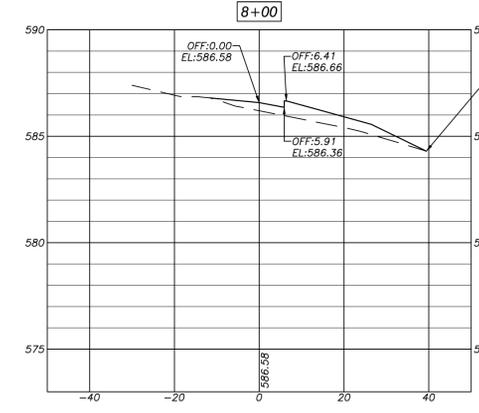
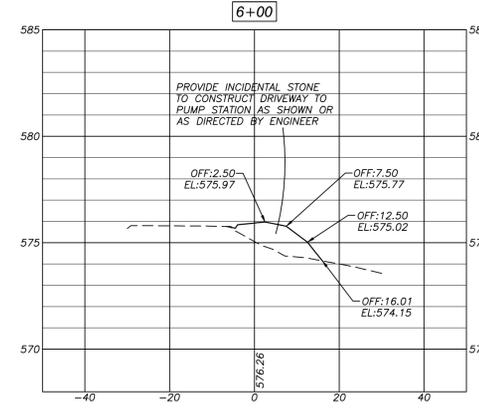
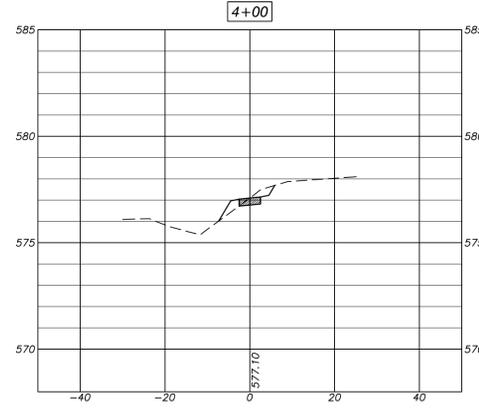
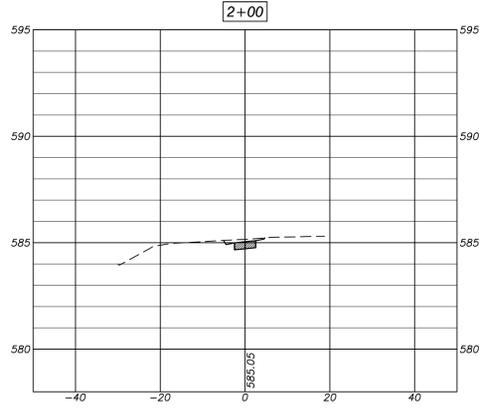
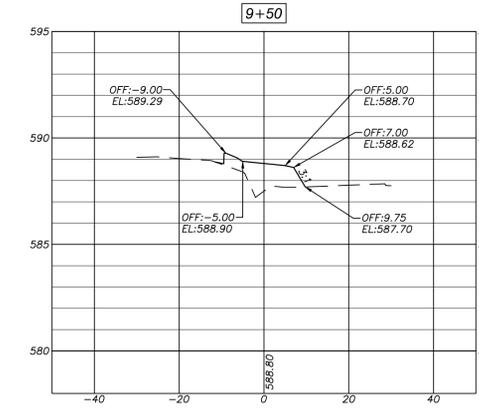
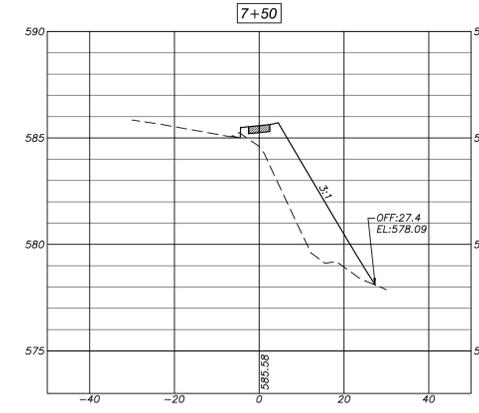
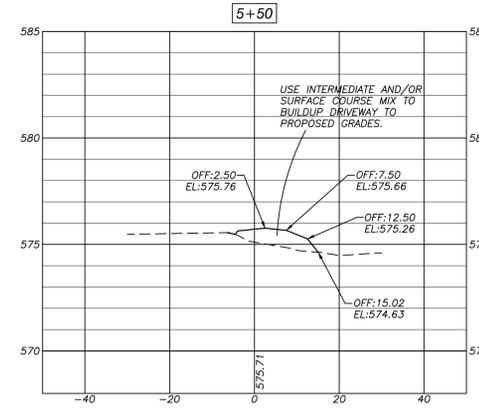
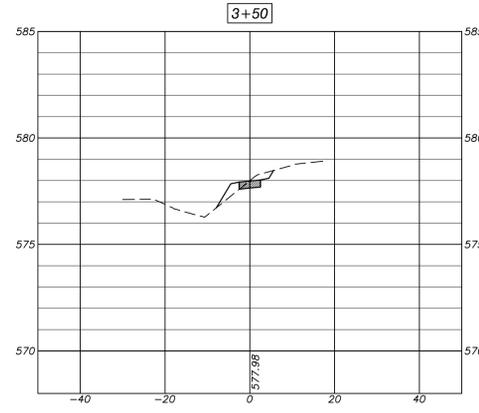
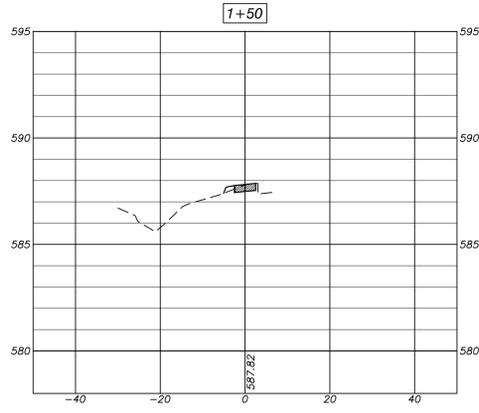
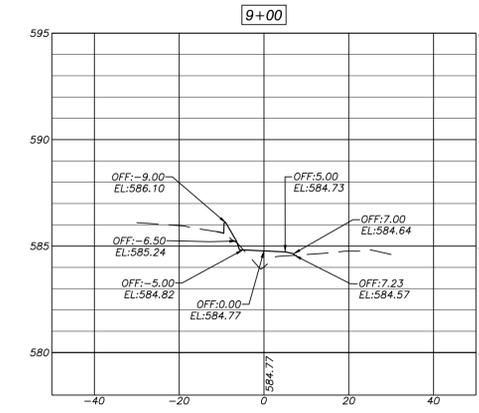
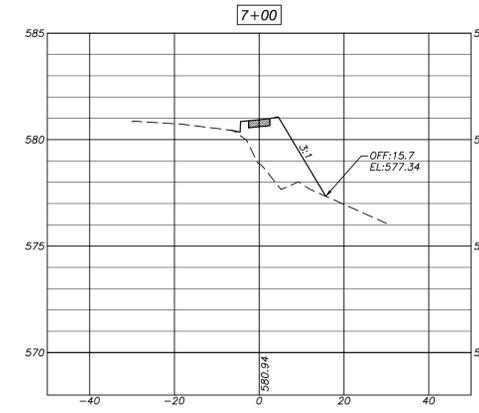
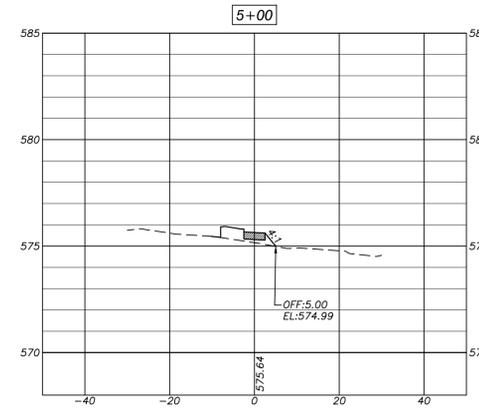
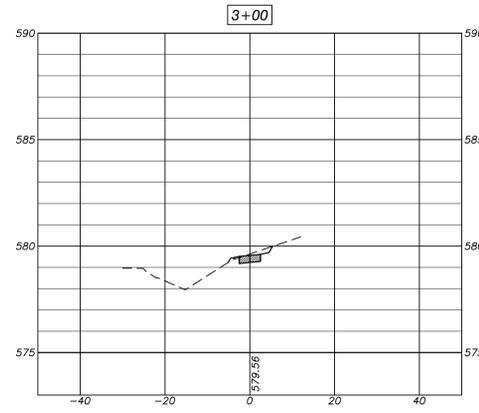
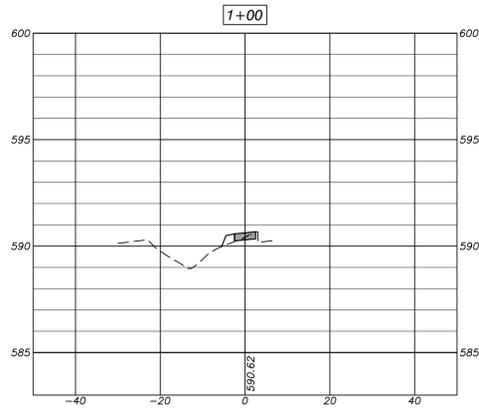
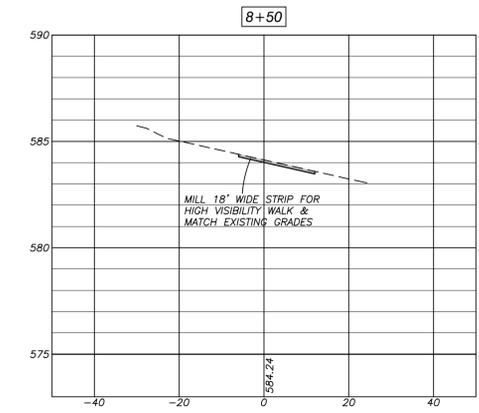
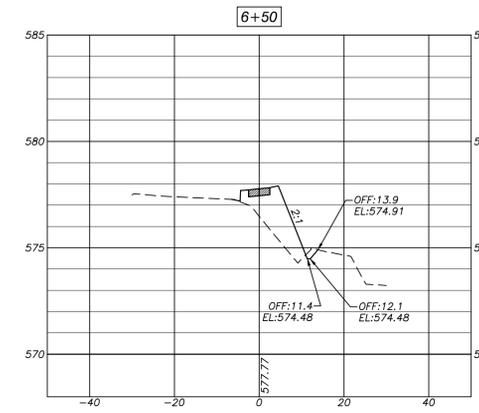
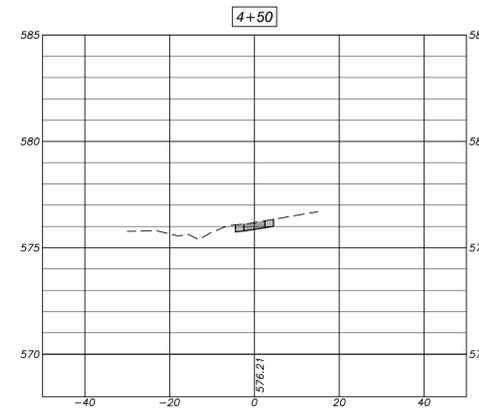
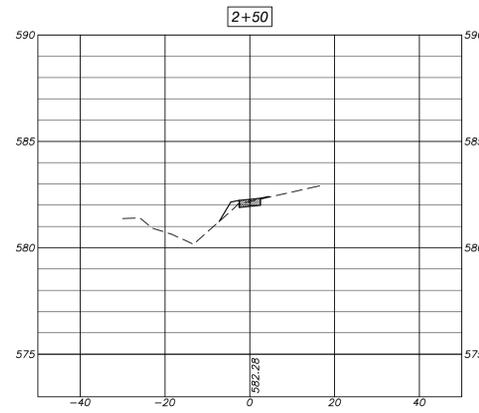
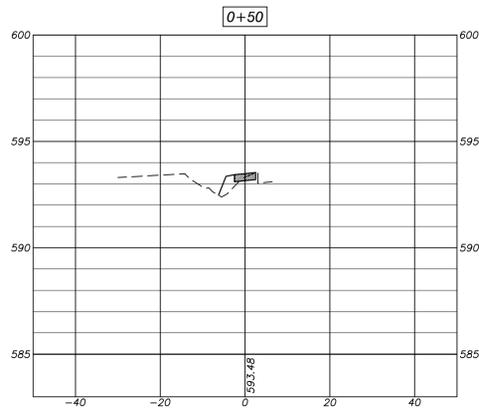
**CURB RAMP STA. 11+05±**  
SCALE: 1" = 5'



NCDOT PROJECT NO. EB-3314 E	
PROPOSED SIDEWALK IMPROVEMENTS FOR	
<b>TOWN OF YANCEYVILLE</b>	
YANCEYVILLE, NORTH CAROLINA YANCEYVILLE TOWNSHIP, CASWELL COUNTY, NC	
alley, williams, carmen & king, inc. ENGINEERS, ARCHITECTS & SURVEYORS 740 chapel hill road p.o. box 1179 burlington, n.c. 27215 336/226-5534 Firm's Engineering License No. P-0203	
DATE: 5/2/16	JOB NO. 13069-1
DRAWN BY: WDF	DWG NAME: 13069(10153)BASE.DWG
CHECKED BY: MDR	SHEET NO. <b>6</b>
<b>CURB RAMP &amp; PAVEMENT MARKING DETAILS</b>	



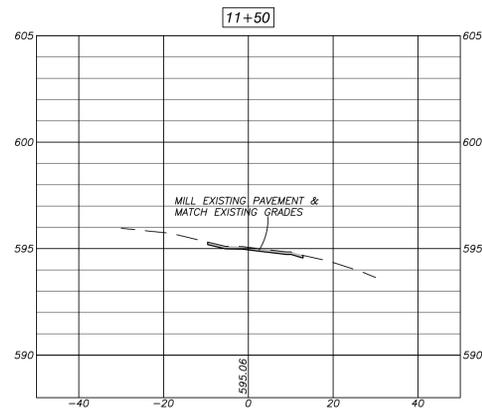
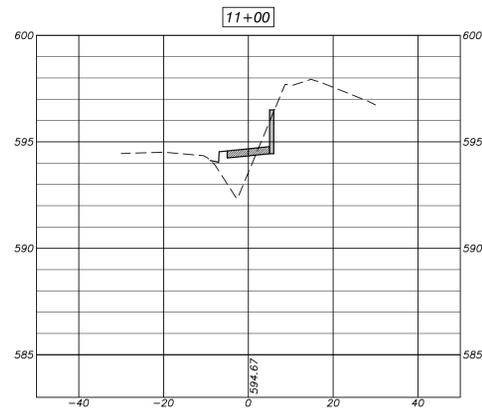
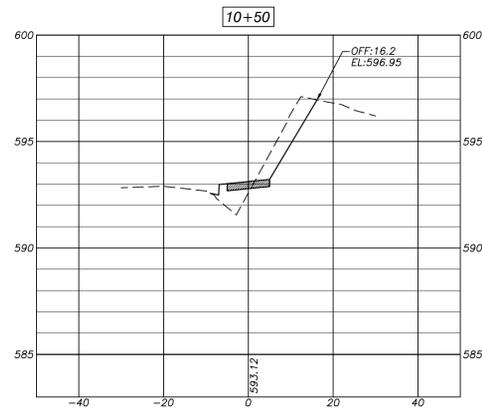
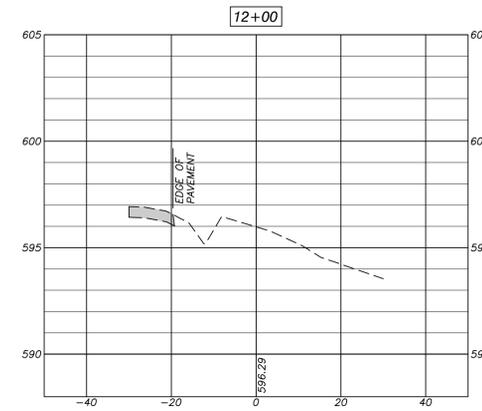
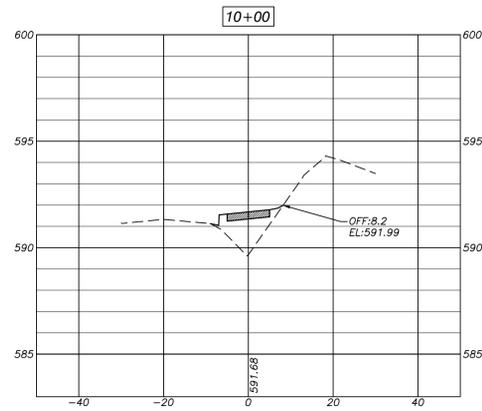
REVISED 5/24/16 PER NCDOT COMMENTS



**SCALES**  
 HORIZONTAL: 1" = 20'  
 VERTICAL: 1" = 4'



<b>NCDOT PROJECT NO. EB-3314 E</b>	
PROPOSED SIDEWALK IMPROVEMENTS FOR <b>TOWN OF YANCEYVILLE</b>	
YANCEYVILLE, NORTH CAROLINA YANCEYVILLE TOWNSHIP, CASWELL COUNTY, NC	
alley, williams, carmen & king, inc. ENGINEERS, ARCHITECTS & SURVEYORS 740 chapel hill road p.o. box 1179 burlington, n.c. 27215 336/226-5534 Firm's Engineering License No. P-0203	
DATE: 5/2/16	JOB NO. 13069-1
DRAWN BY: WDF	DWG NAME: 13069(10153)BASE.DWG SHEET NO.
CHECKED BY: MDR	<b>CROSS SECTIONS</b>  <b>7.1</b>



**SCALES**  
 HORIZONTAL: 1" = 20'  
 VERTICAL: 1" = 4'

Earthwork Calculations 05/03/16  
 Project: Town of Yanceyville Sidewalk / Multi-Use Path  
 NCDOT Project No. EB-3314 E  
 AWCK Project No.: 13069-1

The quantities below have been estimated from cross sections. This information should be used for bidding purposes only.

Station	Length (ft)	Area (sf)		Volume (cf)	
		Cut	Fill	Cut	Fill
0+00	50	0.00	0.00	19.0	59.5
0+50	50	0.76	2.38	36.3	85.1
1+00	50	0.69	1.02	52.6	37.4
1+50	50	1.41	0.47	104.7	11.9
2+00	50	2.77	0.00	98.1	28.8
2+50	50	1.15	1.15	33.4	91.3
3+00	50	0.18	2.50	76.3	123.4
3+50	50	1.90	2.44	45.0	127.0
4+00	50	1.62	2.64	113.9	66.1
4+50	50	2.94	0.00	139.8	103.2
5+00	50	2.65	4.13	66.3	395.2
5+50	50	0.00	11.68	0.0	747.4
6+00	50	0.00	18.21	82.6	963.9
6+50	50	3.30	20.34	141.8	831.8
7+00	50	2.37	12.93	133.6	1,815.4
7+50	50	2.97	59.68	74.4	1,492.1
8+00	80	0.00	0.00	0.0	0.0
8+80	20	0.00	0.00	97.7	11.4
9+00	50	9.77	1.14	355.8	262.3
9+50	50	4.47	9.35	215.2	497.1
10+00	50	4.14	10.53	655.5	323.4
10+50	50	22.08	2.41	796.4	244.2
11+00	30	9.78	7.36	146.6	110.4
11+30	50	0.00	0.00	0.0	0.0
11+60	50	0.00	0.00	0.0	0.0
Totals (cf)				3,484.6	8,427.8
Total Cut (cy)				129.1	
Total Fill (cy)					312.1
Fill Factor				1.15	359.0
Net Fill (cy)					229.9



REVISED 5/24/16 PER NCDOT COMMENTS

NCDOT PROJECT NO. EB-3314 E

PROPOSED SIDEWALK IMPROVEMENTS FOR

**TOWN OF YANCEYVILLE**

YANCEYVILLE, NORTH CAROLINA  
 YANCEYVILLE TOWNSHIP, CASWELL COUNTY, NC

**awck** alley, williams, carmen & king, inc.  
 ENGINEERS, ARCHITECTS & SURVEYORS  
 740 chapel hill road p.o. box 1179  
 burlington, n.c. 27215 336/226-5534  
 Firm's Engineering License No. F-0203

DATE: 5/2/16 JOB NO. 13069-1  
 DRAWN BY: WDF DWG NAME: 13069(10153)BASE.DWG  
 CHECKED BY: MDR SHEET NO. **7.2**

CROSS SECTIONS

**LEGEND :**

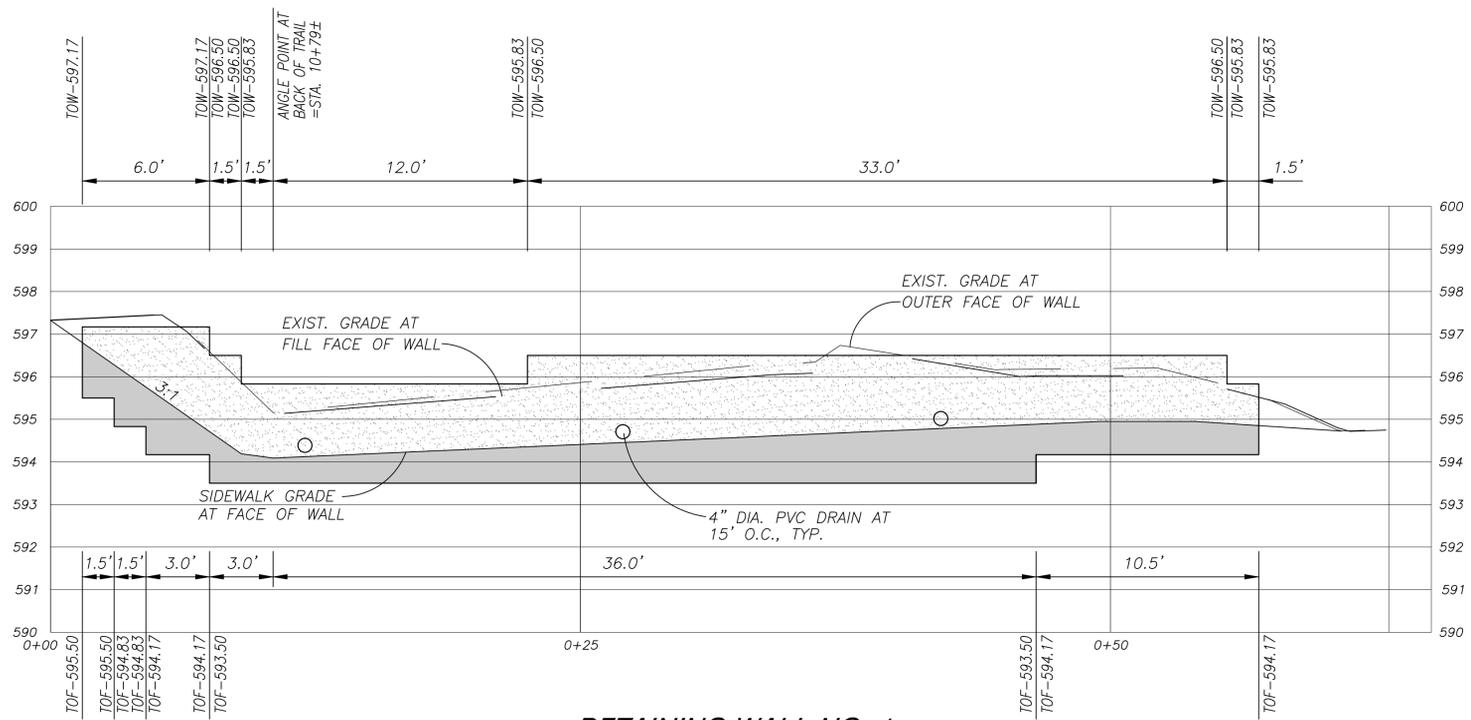
- TOW = TOP OF WALL
- TOF = TOP OF FOOTING
-  AREA OF RETAINING WALL ABOVE GRADE
-  AREA OF RETAINING WALL BELOW GRADE

**SEGMENTAL RETAINING WALL NOTES:**

- CONTRACTOR SHALL PROVIDE ENGINEER WITH SHOP DRAWINGS.
- OWNER TO SELECT COLOR FROM STANDARD COLORS OFFERED BY MANUFACTURER.

STATIONS PROVIDED ARE CENTERLINE OF RETAINING WALL. STEPS IN TOP OF WALL AND BOTTOM OF WALL PROVIDED IN 1.5' INCREMENTS. ACTUAL LOCATION OF POINTS OF CURVATURE (PC) AND TANGENCY (PT) MAY VARY TO ACCOUNT FOR VARIANCES OF SEGMENTAL SECTION AS WELL AS BEGINNING OR ENDING OF WALL LOCATIONS (0.5±).

	ABOVE GRADE	BELOW GRADE	TOTAL AREA
RETAINING WALL NO. 1 :	93.9 S.F.	52.4 S.F.	146.3 S.F.



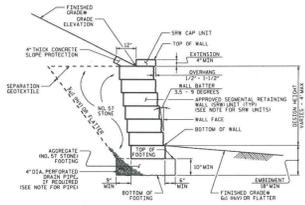
**RETAINING WALL NO. 1**

**SCALES**  
 HORIZONTAL : 1" = 4'  
 VERTICAL : 1" = 2'

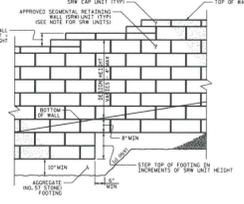
**SEE SHEET 5 FOR PLAN VIEW**

**NOTES:**

- FOR STANDARD SEGMENTAL GRAVITY RETAINING WALLS SEE SEGMENTAL GRAVITY RETAINING WALL PROVISIONS.
- FOR SPECIAL WALL CONDITIONS SEE ROADWAY PLANS AND SECTION VIEW OF THE RETAINING WALLS.
- DO NOT ATTACH FENCES OR HANDRAILS TO STANDARD SEGMENTAL GRAVITY WALLS.
- DO NOT USE STANDARD SEGMENTAL GRAVITY WALLS FOR INTERSTATE LEADS WILL BE WITHIN 5'-6" OF THE BACK OF SHIP CAP UNITS.
- DO NOT USE STANDARD SEGMENTAL GRAVITY WALLS WHEN SURROUNDING LEADS WILL BE WITHIN 5'-6" OF THE BACK OF SHIP CAP UNITS.
- DO NOT USE STANDARD SEGMENTAL GRAVITY WALLS WHEN VERY LOOSE SEGMENTAL RETAINING WALLS ARE PRESENT OR APPROXIMATE FOR OTHER OF SHIP CAP UNITS (SEE ROADWAY PLANS FOR DETAILS) AND EMBANKMENTS OF APPROXIMATE 5' TO 10' HIGHER THAN THE WALL.
- DO NOT USE APPROVED SHIP UNITS FROM DIFFERENT VENDORS ON THE SAME PROJECT UNLESS THEY ARE IDENTICAL.
- BEFORE BEGINNING STANDARD SEGMENTAL GRAVITY WALL CONSTRUCTION, VERIFY WALL LOCATION AND SHIP WALL PROJECT START WALLS AND END WALLS. VERIFY WALL LOCATION AND SHIP WALL PROJECT START WALLS AND END WALLS. VERIFY WALL LOCATION AND SHIP WALL PROJECT START WALLS AND END WALLS.
- A DRAIN PIPE IS REQUIRED IF GROUNDWATER IS ABOVE BOTTOM OF FOOTING.
- DO NOT PLACE NO. 12 STONE FOR FOOTING UNLESS EXCAVATION CORROSION AND TREATMENT MATERIAL ARE APPROVED.



**STANDARD SEGMENTAL GRAVITY WALL WITH SLOPE**  
 SEE ROADWAY PLANS FOR FINISHED GRADE DETAILS.



**STANDARD SEGMENTAL GRAVITY WALL - PARTIAL ELEVATION**

PROJECT NO. \_\_\_\_\_ COUNTY \_\_\_\_\_  
 STATION: \_\_\_\_\_  
 SHEET OF \_\_\_\_\_

**GEOTECHNICAL ENGINEERING, L.P.**  
 STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

STANDARD DRAWING NO. 4542  
 STANDARD SEGMENTAL GRAVITY RETAINING WALL  
 DATE: 11-18-15



**NCDOT PROJECT NO. EB-3314 E**

PROPOSED SIDEWALK IMPROVEMENTS FOR  
**TOWN OF YANCEYVILLE**  
 YANCEYVILLE, NORTH CAROLINA  
 YANCEYVILLE TOWNSHIP, CASWELL COUNTY, NC

**alley, williams, carmen & king, inc.**  
 ENGINEERS, ARCHITECTS & SURVEYORS  
 740 chapel hill road p.o. box 1179  
 burlington, n.c. 27215 336/226-5534  
 Firm's Engineering License No. P-0203

**awck**

DATE: 5/2/16  
 DRAWN BY: WDF  
 CHECKED BY: MDR

**RETAINING WALL DETAILS**

JOB NO. 13069-1  
 DWG NAME: 13069(10153)BASE.DWG  
 SHEET NO. 8

2012 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated January, 2012 are applicable to this project and by reference hereby are considered a part of these plans:

STD. NO. TITLE

DIVISION 2 - EARTHWORK  
200.02 Method of Clearing - Method II

DIVISION 8 - INCIDENTALS

- 840.01 Sheet 1 Brick Catch Basin
- 840.01 Sheet 2 Brick Catch Basin
- 840.03 Sheet 1 Frame, Grates and Hood
- 840.03 Sheet 2 Frame, Grates and Hood
- 840.15 Brick Drop Inlet
- 840.16 Drop Inlet Frame and Grates
- 840.34 Sheet 1 Traffic Bearing Junction Box
- 840.34 Sheet 2 Traffic Bearing Junction Box
- 840.41 Spring Box
- 840.54 Manhole Frame and Cover
- 840.66 Drainage Structure Steps
- 840.71 Concrete and Brick Pipe Plug
- 840.72 Pipe Collar
- 846.01 Sheet 1 Concrete Curb, Gutter, and Curb & Gutter
- 846.01 Sheet 2 Concrete Curb, Gutter, and Curb & Gutter
- 846.01 Sheet 3 Concrete Curb, Gutter, and Curb & Gutter
- 848.01 Concrete Sidewalk
- 848.03 Sheet 1 Driveway Turnout
- 848.03 Sheet 2 Driveway Turnout
- 848.05 Sheet 3 Curb Ramp
- 852.10 Median Construction
- 876.02 Guide for Rip Rap at Pipe Outlets

DIVISION 11 - WORK ZONE TRAFFIC CONTROL

- 1101.02 Sheet 1 Temporary Lane Closures
- 1101.04 Temporary Shoulder Closures
- 1101.11 Sheet 1 Traffic Control Design Tables
- 1101.11 Sheet 2 Traffic Control Design Tables
- 1101.11 Sheet 3 Traffic Control Design Tables
- 1101.11 Sheet 4 Traffic Control Design Tables
- 1110.01 Sheet 1 Stationary Work Zone Signs
- 1110.01 Sheet 2 Stationary Work Zone Signs
- 1110.01 Sheet 3 Stationary Work Zone Signs
- 1110.02 Portable Work Zone Signs
- 1130.01 Drums
- 1135.01 Cones
- 1150.01 Flagging Devices
- 1180.01 Skinny-Drum

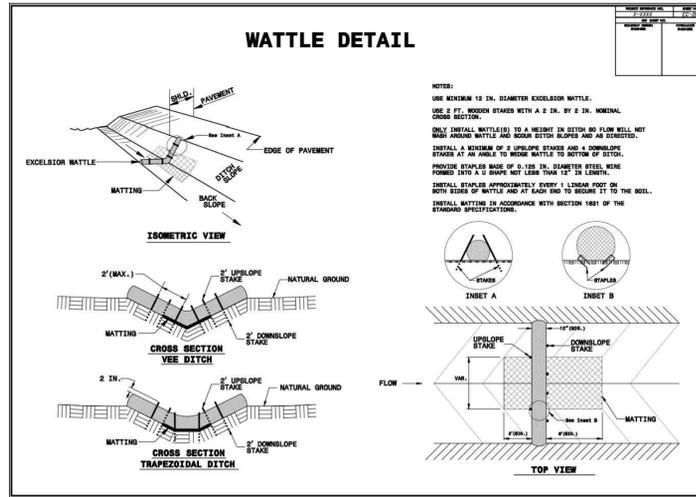
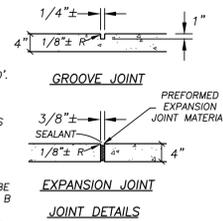
DIVISION 16 - EROSION CONTROL AND ROADSIDE DEVELOPMENT

- 1605.01 Temporary Silt Fence
- 1606.01 Special Sediment Control Fence
- 1622.01 Guide for Temporary Berms and Slope Drains
- 1630.02 Silt Basin Type B
- 1631.01 Matting Installation
- 1632.03 Rock Inlet Sediment Trap Type C
- 1633.02 Temporary Rock Silt Check Type B
- 1634.02 Temporary Rock Sediment Dam Type B
- 1635.01 Rock Pipe Inlet Sediment Trap Type A
- 1640.01 Coir Fiber Baffle

JOINT NOTES:

1. PROVIDE EXPANSION JOINTS AT ALL LOCATIONS WHICH ABUTS EXISTING CONCRETE OR STRUCTURES.
2. MAXIMUM TRANSVERSE EXPANSION JOINT SPACING SHALL BE 40'.
3. TRANSVERSE GROOVE JOINT SPACING SHALL GENERALLY BE 5'. ENGINEER MAY ALLOW VARIANCES WHERE SIDEWALK TERMINATES AT DRIVEWAYS, STRUCTURES, ETC.
4. PROVIDE TRANSVERSE GROOVE JOINTS AT ALL ANGLE LOCATIONS OF SIDEWALK.
5. PROVIDE TRANSVERSE GROOVE JOINTS AT ALL DRIVEWAYS, THICKENED TO 6".

SIDEWALK DETAILS  
NOT TO SCALE



**NEW STABILIZATION TIMEFRAMES**

Site Area Description	Stabilization	Timeframe Expectations
Perimeter dikes, swales, ditches and slopes	7 days	None
High Quality Water (HQW) Zones	7 days	None
Slopes steeper than 3:1	7 days	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed.
Slopes 3:1 or flatter	14 days	7 days for slopes greater than 50' in length.
All other areas with slopes flatter than 4:1	14 days	None, except for perimeters and HQW Zones.

GENERAL EROSION CONTROL NOTES:

1. ALL EROSION CONTROL MEASURES AND DEVICES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH NCDOT & NCDENR - LAND QUALITY SECTION "EROSION AND SEDIMENT CONTROL" MANUAL REQUIREMENTS.
2. ALL SLOPES SHALL BE SEEDED AND MULCHED WITHIN AT LEAST 14 CALENDAR DAYS OF COMPLETION OF GRADING PHASE. SEE NEW STABILIZATION TIME FRAMES FOR ADDITIONAL INFORMATION.
3. REMOVE ANY MUD OR SOIL MATERIALS TRACKED ONTO ADJOINING ROADS IMMEDIATELY.
4. PROVIDE ADDITIONAL MEASURES AS NEEDED TO DIRECT RUNOFF TO EROSION CONTROL DEVICES AS DIRECTED BY THE ENGINEER.
5. INSPECT ALL EROSION CONTROL MEASURES ON A WEEKLY BASIS AND WITHIN 24 HOURS OF A 0.5 IN. RAINFALL EVENT (WITHIN A 24 HOUR PERIOD). CONTRACTOR SHALL REPAIR OR PROVIDE ANY REQUIRED MAINTENANCE NOTED DURING INSPECTION AND PRIOR TO CONTINUING WITH ANY CONSTRUCTION ACTIVITIES.
6. CONTRACTOR SHALL PROVIDE A RAIN GAUGE ON SITE AND SHALL COMPLETE "STORMWATER INSPECTIONS FOR GENERAL PERMIT NCG010000 - LAND DISTURBING ACTIVITIES" FORM ON A WEEKLY BASIS. PROVIDE COPIES OF REPORT TO OWNER/ENGINEER ON A MONTHLY BASIS.
7. ANY WASTE MATERIAL DISPOSED OF OFF-SITE SHALL BE DISPOSED OF TO A SITE APPROVED BY NCDENR, LQS.
8. ANY BORROW MATERIAL SHALL BE OBTAINED FROM AN NCDENR, LQS APPROVED SITE.
9. PROVIDE COPIES OF APPROVAL LETTERS FOR WASTE/BORROW SITES TO ENGINEER PRIOR TO DISPOSING OF OR OBTAINING MATERIAL FROM SITES.
10. CONTRACTOR SHALL PROVIDE ENGINEER WITH A COPY OF THE CERTIFICATION OF ALL EMPLOYEES MAINTAINING AND INSTALLING EROSION CONTROL DEVICES.

Erosion Control Blanket For Swales

Start Sta	End Sta	Length (LF)	Remarks
0+40 ±	0+80 ±	40	
11+75 ±	12+65 ±	90	
Total Length (LF)		130	Assumes 8'W standard roll
Total Blanket for Swales (SY)		116	

Erosion Control Blanket For Slopes

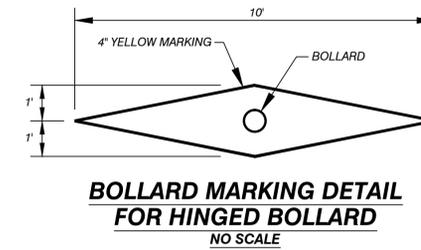
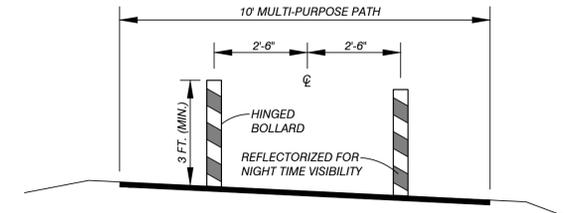
Start Sta	End Sta	Area (SY)
6+05	7+80	360
8+75	11+30	188
Total Slope Blanket (SY)		548

Erosion Control Blanket For Shoulders

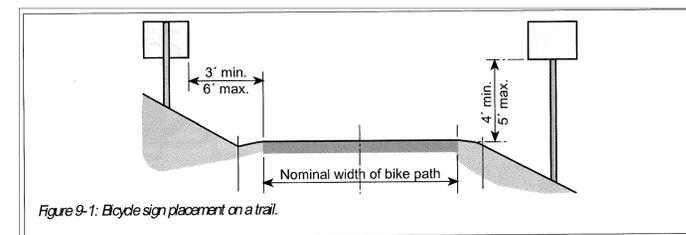
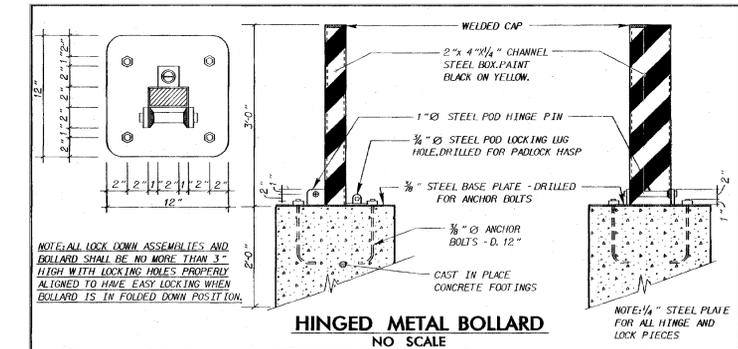
Start Sta	End Sta	Area (SY)
4+95 LT	7+95 LT	47
8+75 RT		60
8+85 LT	11+10 LT	56
11+70 LT	11+85 LT	6
Total Shoulder Blanket (SY)		169

Total Erosion Control Blanket (SY)

Swales	116
Slopes	548
Shoulders	169
Total	833



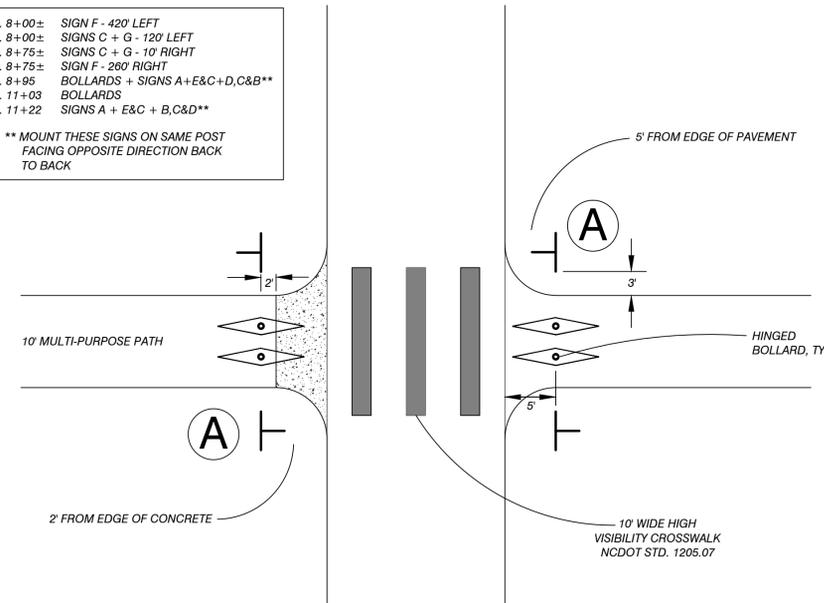
1. ALL BOLLARD POSTS TO BE REFLECTORIZED.
2. BOLLARD PLACEMENT OFFSET FROM INTERSECTIONS IS A MINIMUM OF 5'.
3. BOLLARDS AND SIGNS TO BE INSTALLED BY THE CONTRACTOR.
4. ALL METAL TO BE HOT DIPPED GALVANIZED STEEL.



<p><b>A</b></p> <p>QUANTITY REQUIRED: 2</p>  <p>18" X 18" R1-1</p>	<p><b>B</b></p> <p>QUANTITY REQUIRED: 2</p>  <p>24" X 24" R5-3</p>	<p><b>C</b></p> <p>QUANTITY REQUIRED: 6</p>  <p>24" X 18" D11-1</p>	<p><b>D</b></p> <p>QUANTITY REQUIRED: 2</p>  <p>24" X 6" M4-11</p>	<p><b>E</b></p> <p>QUANTITY REQUIRED: 2</p>  <p>24" X 6" M4-12</p>
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STA. 8+00± SIGN F - 420' LEFT  
 STA. 8+00± SIGNS C + G - 120' LEFT  
 STA. 8+75± SIGNS C + G - 10' RIGHT  
 STA. 8+75± SIGN F - 260' RIGHT  
 STA. 8+95 BOLLARDS + SIGNS A+E&C+D,C&B\*\*  
 STA. 11+03 BOLLARDS  
 STA. 11+22 SIGNS A + E&C + B,C&D\*\*

\*\* MOUNT THESE SIGNS ON SAME POST FACING OPPOSITE DIRECTION BACK TO BACK



<p><b>F</b></p> <p>QUANTITY REQUIRED: 2</p>  <p>36" X 36" M11-1A</p>	<p><b>G</b></p> <p>QUANTITY REQUIRED: 2</p>  <p>12" X 9" M7-5</p>
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**SIGNS SUMMARY OF QUANTITIES**

ITEM NO.	DESC. NO.	SECT. NO.	ITEM DESCRIPTION	QUANTITY	UNIT
1672	901		CONTRACTOR FURNISHED TYPE "E" SIGNS	54	SF
1679	903		3 LB. STEEL U-CHANNEL POSTS .....	120	LF
1687	904		TYPE "E" SIGNS, ERECTION .....	18	EA

ALL SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER. BACKGROUND SHALL BE TYPE III REFLECTIVE SHEETING UNLESS OTHERWISE INDICATED.

SEE NORTH CAROLINA BICYCLE FACILITIES PLANNING AND DESIGN GUIDELINES, APPLICABLE ROADWAY STANDARD DRAWINGS, AND MUTCD FOR FURTHER DETAILS AND INFORMATION.

ROADWAY STANDARD DRAWINGS APPLICABLE TO THESE SIGNING PLANS:

STD. NO.	TITLE
901.50	ARROWS AND SHILDS
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.50	MOUNTING OF TYPE "D", "E" AND "F" SIGNS ON "U" CHANNEL



NCDOT PROJECT NO. EB-3314 E

PROPOSED SIDEWALK IMPROVEMENTS FOR

**TOWN OF YANCEYVILLE**

YANCEYVILLE, NORTH CAROLINA  
YANCEYVILLE TOWNSHIP, CASWELL COUNTY, NC

alley, williams, carmen & king, inc.  
ENGINEERS, ARCHITECTS & SURVEYORS  
740 chapel hill road  
burlington, n.c. 27215  
p.o. box 1179  
336/226-5534  
Firm's Engineering License No. P-0203

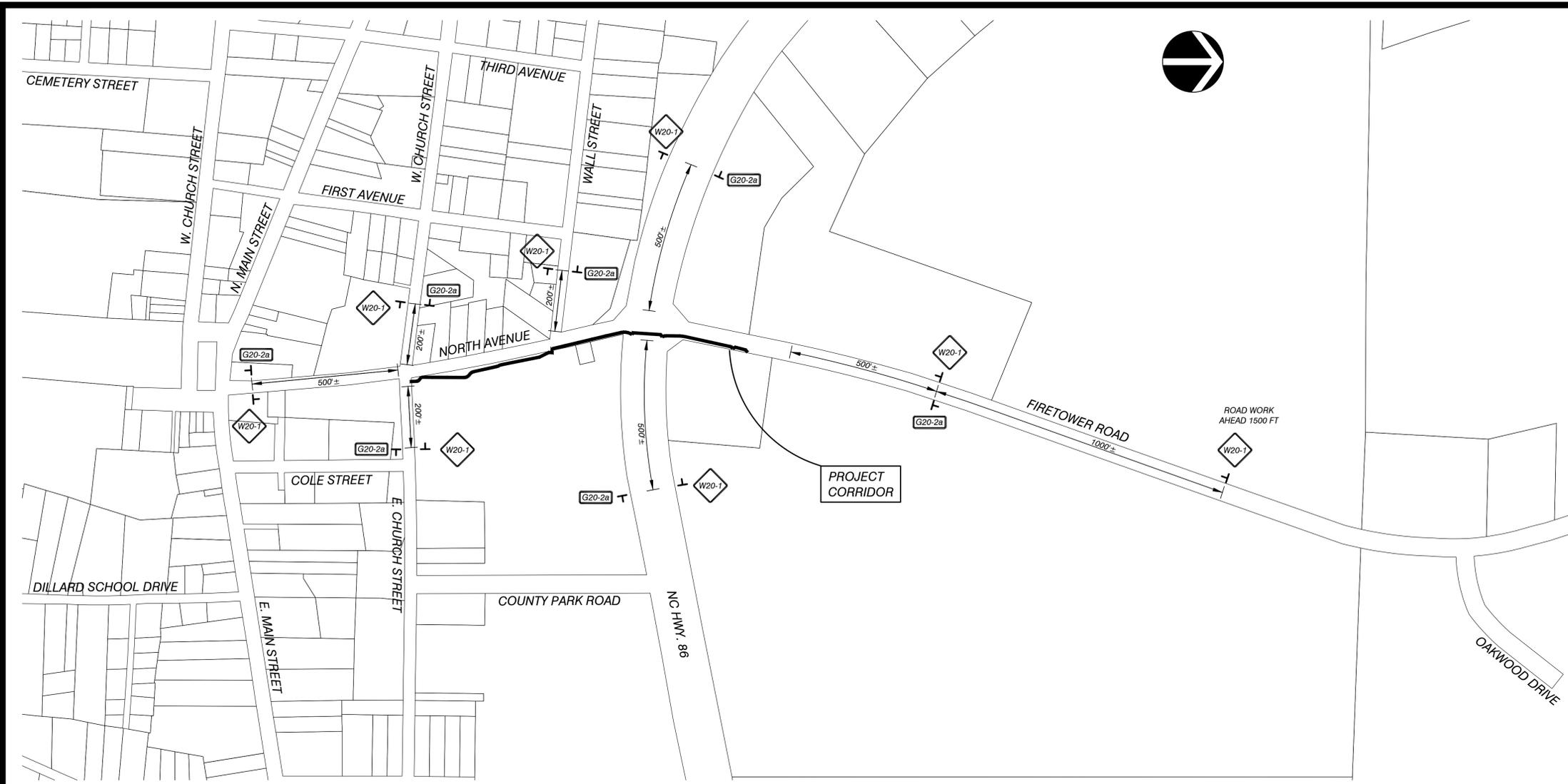
DATE: 5/2/16  
DRAWN BY: WDF  
CHECKED BY: MDR

CONSTRUCTION DETAILS

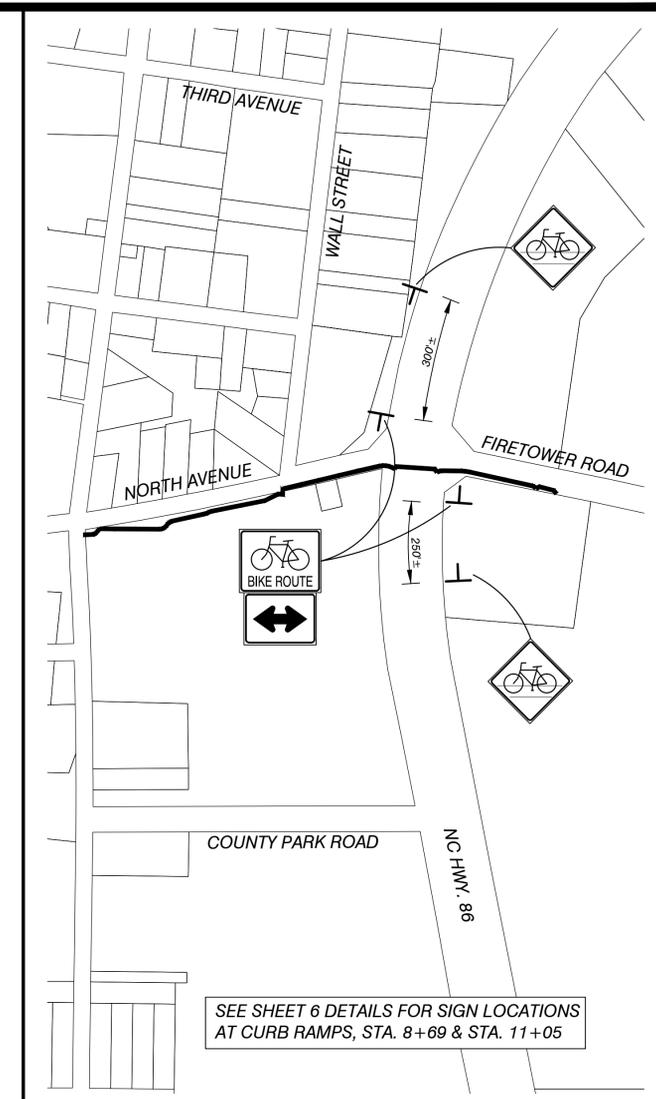
JOB NO. 13069-1  
DWG NAME: 13069DETAILS.DWG  
SHEET NO. 9.1

REVISED 5/24/16 PER NCDOT COMMENTS





TRAFFIC CONTROL PLAN  
SCALE: 1" = 200'



SIGNAGE PLAN  
SCALE: 1" = 200'

SEE SHEET 6 DETAILS FOR SIGN LOCATIONS AT CURB RAMPS, STA. 8+69 & STA. 11+05

**GENERAL TRAFFIC CONTROL NOTES**

1. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL IN ACCORDANCE WITH ALL NCDOT AND MUTCD SPECIFICATIONS AND REQUIREMENTS.
2. CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN DETAIL DRAWINGS, STANDARD DETAILS AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS, OR RESULT IN DUPLICATE, OR UNDESIRABLE OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING OR REMOVAL OF DEVICES, AS DIRECTED BY THE ENGINEER.
3. CONTRACTOR SHALL PROVIDE STATIONARY WORK ZONE SIGNS (ROAD CONSTRUCTION AHEAD AND END CONSTRUCTION) AS SHOWN ON TRAFFIC CONTROL PLAN OR AS DIRECTED BY ENGINEER.
4. INSTALL STATIONARY ADVANCE WORK ZONE WARNING SIGNS A MINIMUM OF 3 DAYS PRIOR TO BEGINNING WORK.
5. FLAGGERS SHALL BE CERTIFIED IN WORK ZONE TRAFFIC CONTROL OPERATIONS.

**LANE AND SHOULDER CLOSURE REQUIREMENTS**

1. REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED, OR AS DIRECTED BY THE ENGINEER.
2. WHEN WORKING WITHIN 10 FEET OF EDGE OF PAVEMENT, CONTRACTOR WILL BE ALLOWED TO CLOSE ADJACENT TRAVEL LANE, PROVIDED TRAFFIC CONTROL IS MAINTAINED IN ACCORDANCE WITH EITHER METHOD A, B OR C AS FOLLOWS:
  - A. SKINNY DRUMS ARE USED TO PROVIDE 2 TRAVEL LANES, ONE IN EACH DIRECTION WITH A MINIMUM LANE WIDTH OF 10' EACH AND 10 FEET OF CLEARANCE BETWEEN TRAVEL LANE AND WORK ZONE.
  - B. PROVIDE FLAGGERS AND SHIFT TRAFFIC TO OPPOSITE LANE PER NCDOT STANDARDS.
  - C. CONTRACTOR PROVIDES WATER FILLED OR CONCRETE BARRIERS IMMEDIATELY ADJACENT TO THE WORK ZONE AREA AS DIRECTED BY THE ENGINEER.
3. CONTRACTOR SHALL PROVIDE PERSONNEL AND EQUIPMENT FOR EITHER METHOD A, B OR C IN ACCORDANCE WITH NCDOT STANDARDS, INCLUDING ALL PORTABLE SIGNS.
4. PROVIDE PORTABLE TRAFFIC CONTROL SIGNS AND CHANNELIZING DEVICES TO SHIFT TRAFFIC AS SHOWN ON STANDARD DRAWING 1101.02 OR AS DIRECTED BY THE ENGINEER.
5. SPACE CHANNELIZING DEVICES IN WORK AREA AT 40 FT MAX ON CENTER IN TANGENT SECTIONS AND 10 FT MAX ON CENTER IN RADIUS SECTIONS. CHANNELIZING DEVICES SHALL BE AT LEAST 3 FT OFF EDGE OF AN OPEN TRAVELWAY WHEN LANE CLOSURES ARE NOT IN EFFECT.

**PAVEMENT EDGE DROP OFF REQUIREMENTS**

1. BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF THE EXISTING PAVEMENT WHERE THE DROP OFF EXCEEDS 2 INCHES. BACKFILL MATERIAL SHALL BE COMPACTED AND APPROVED BY THE ENGINEER AS SUITABLE MATERIAL FOR THE INTENDED PURPOSE. BACKFILL MATERIAL SHALL BE PROVIDED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER. WHEN DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL PROVIDE ABC STONE BASE AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR INCIDENTAL STONE.

**TRAFFIC CONTROL WORK RESTRICTIONS**

LANE CLOSURES WILL NOT BE ALLOWED BETWEEN 7:00 AM - 9:00 AM AND FROM 4:00 PM - 7:00 PM, MONDAY THRU FRIDAY, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

├ DENOTES STATIONARY TRAFFIC CONTROL SIGN

**SIGN SUMMARY**

**STATIONARY SIGNS**

TYPE	DESCRIPTION	SIZE	QUANTITY
W20-1	ROAD WORK AHEAD	48" X 48"	7
G20-2a	END ROAD WORK	48" X 24"	7
W20-1	ROAD WORK AHEAD 1500 FT	48" X 48"	1

CONTRACTOR SHALL PROVIDE ALL OTHER REQUIRED SIGNAGE IN ACCORDANCE WITH NCDOT REQUIREMENTS TO TEMPORARILY CLOSE TRAVEL LANES ADJACENT TO WORK ZONE.



6/21/2016

NCDOT PROJECT NO. EB-3314 E

PROPOSED SIDEWALK IMPROVEMENTS FOR

**TOWN OF YANCEYVILLE**

YANCEYVILLE, NORTH CAROLINA  
YANCEYVILLE TOWNSHIP, CASWELL COUNTY, NC



alley, williams, carmen & king, inc.  
ENGINEERS, ARCHITECTS & SURVEYORS  
740 chapel hill road p.o. box 1179  
burlington, n.c. 27215 336/226-5534  
Firm's Engineering License No. F-0203

DATE: 5/2/16  
DRAWN BY: WDF  
CHECKED BY: MDR

TRAFFIC CONTROL & SIGNAGE PLAN

JOB NO. 13069-1  
DWG NAME: 13069TRAF-CONT-REV.DWG  
SHEET NO.

10